

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER Eugster 2-28C4				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038				
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') John & Joyce Eugster						14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-971-5156				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 11496 Gold Dust Drive, South Jordan, UT 84095						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		900 FNL 818 FWL		NWNW	28	3.0 S	4.0 W	U		
Top of Uppermost Producing Zone		900 FNL 818 FWL		NWNW	28	3.0 S	4.0 W	U		
At Total Depth		900 FNL 818 FWL		NWNW	28	3.0 S	4.0 W	U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 818			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1200			26. PROPOSED DEPTH MD: 11100 TVD: 11100				
27. ELEVATION - GROUND LEVEL 5845			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City				
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	20	13.375	0 - 800	54.5	J-55 LT&C	8.8	Class G	1000	1.15	15.8
SURF	12.25	9.625	0 - 3100	40.0	N-80 LT&C	9.5	35/65 Poz	404	3.16	11.0
							Premium Lite High Strength	191	1.33	14.2
I1	8.75	7	0 - 8400	29.0	P-110 LT&C	10.3	Premium Lite High Strength	342	2.31	12.0
							Premium Lite High Strength	91	1.91	12.5
L1	6.125	4.5	8200 - 11100	13.5	P-110 LT&C	11.6	50/50 Poz	214	1.61	12.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Maria S. Gomez				TITLE Principal Regulatory Analyst			PHONE 713 997-5038			
SIGNATURE				DATE 12/10/2012			EMAIL maria.gomez@epenergy.com			
API NUMBER ASSIGNED 43013519120000				APPROVAL  Permit Manager						

**Eugster 2-28C4  
Sec. 28, T3S, R4W  
DUCHESNE COUNTY, UT**

**EP ENERGY E&P COMPANY, L.P.**

**DRILLING PROGRAM**

**1. Estimated Tops of Important Geologic Markers**

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,062'
Green River (GRTN1)	4,442'
Mahogany Bench	5,352'
L. Green River	6,612'
Wasatch	8,472'
T.D. (Permit)	11,100'

**2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil	Green River (GRRV)	3,062'
	Green River (GRTN1)	4,442'
	Mahogany Bench	5,352'
	L. Green River	6,612'
	Wasatch	8,472'

**3. Pressure Control Equipment: (Schematic Attached)**

A 4.5" by 20.0" rotating head on structural pipe from surface to 800'. A 4.5" by 13 3/8" Smith Rotating Head and 5M Annular from 800' to 3,100' on Conductor. A 5M BOP stack, 5M Annular, and 5M kill lines and choke manifold used from 3,100' to 8,400'. A 10M BOE w/rotating head, 5M annular, blind rams & mud cross from 8,400' to TD. The BOPE and related equipment will meet the requirements of the 5M and 10M system.

**OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:**

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi Annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test and 4,000 psi high test. The 10M BOP will be installed

with 3 ½" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

**Statement on Accumulator System and Location of Hydraulic Controls:**

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

**Auxiliary Equipment:**

- A) Pason monitoring systems with gas monitor 800' – TD.
- B) Mud logger with gas monitor – 3,100' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and de-silter, and centrifuge.

**4. Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations will be based on: 25% excess over gauge hole in the liner section, 10% excess over gauge hole in the intermediate section, and 75% excess on the lead and 50% excess on the tail over gauge hole volume for the surface hole. Actual volumes pumped will be a minimum of the volumes stated above, however, actual hole size will be based on caliper logs in the liner and intermediate sections. Gauge hole will be used for the surface section.

**5. Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.5
Intermediate	WBM	9.5 – 10.3
Production	WBM	10.3 – 11.6

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 3,100' - TD.

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from base of surface casing to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 11,100' TD equals approximately 6,696 psi. This is calculated based on a 0.6032 psi/foot gradient (11.6 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,254 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,400' = 6,720 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 4,254 psi.

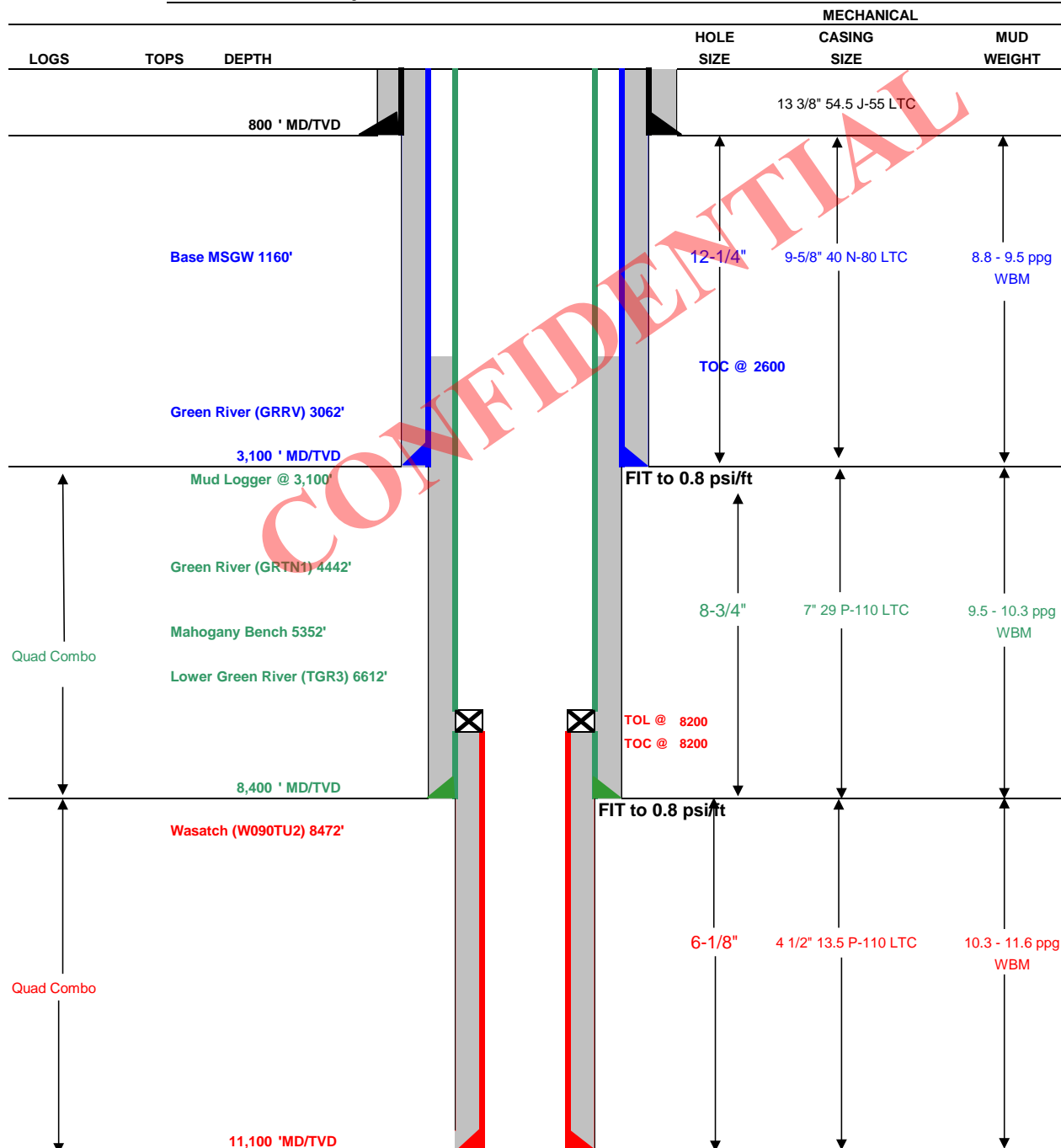
8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**





## Drilling Schematic

Company Name: <b>EP ENERGY</b>	Date: March 5, 2013
Well Name: <b>Eugster 2-28C4</b>	TD: 11,100
Field, County, State: <b>Altamont - Bluebell, Duchesne, Utah</b>	AFE #:
Surface Location: <b>Sec 6 T3S R4W 900' FNL 818' FWL</b>	BHL: Straight Hole
Objective Zone(s): <b>Green River, Wasatch</b>	Elevation: 5846
Rig: <b>Precision 404</b>	Spud (est.):
BOPE Info: 5.0 x 13 3/8 rotating head from 800' to 3,100' 11 5M BOP stack and 5M kill lines and choke manifold used from 3,100' to 8,400' 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 8,400' to TD	



**DRILLING PROGRAM**

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	800	54.5	J-55	LTC	2,730	1,140	1,399
SURFACE	9-5/8"	0	3100	40.00	N-80	LTC	3,090	5,750	820
INTERMEDIATE	7"	0	8400	29.00	P-110	LTC	11,220	8,530	797
PRODUCTION LINER	4 1/2"	8200	11100	13.50	P-110	LTC	12,410	10,680	338

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		800	Class G + 3% CACL2	1000	100%	15.8 ppg	1.15
SURFACE	Lead	2,600	Boral Craig POZ 35%, Mountain G 65%, Bentonite Wyoming 8%, Silicate 5 lbm/sk, Pol-E Flake 0.125 lbm/sk, Kwik Seal 0.25 lb/sk	404	75%	11.0 ppg	3.16
	Tail	500	Halco-light premium+3 lb/sk Silicate+0.3% Econolite+1% Salt+0.25 lbm/sk Kol-Seal+0.24 lb/sk Kwik Seal+ HR-5	191	50%	14.2 ppg	1.33
INTERMEDIATE	Lead	4,800	Halco-Light-Premium+4% Bentonite+0.4% Econolite+0.2% Halad322+3 lb/sk Silicalite Compacted+0.8% HR-5+ 0.125 lb/sk Poly-E-Flake	342	10%	12.0 ppg	2.31
	Tail	1,000	Halco-Light-Premium+0.2% Econolite+0.3% Versaset+0.2% Halad322+0.8% HR-5+ 0.3% SuperCBL+ 0.125 lb/sk Poly-E-Flake	91	10%	12.5 ppg	1.91
PRODUCTION LINER		2,900	Halco- 50/50 Poz Premium Cement+20% SSA-1+0.3% Super CBL+ 0.3% Halad-344+0.3% Halad-413+ 0.2% SCR-100+ 0.125 lb/sk Poly-E-Flake + 3 lb/sk Silicat	214	25%	12.30	1.61

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 8,000'.
LINER	Float shoe, 1 joint, float collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Joe Cawthorn 713-997-5929

MANAGER: Tommy Gaydos

EP ENERGY E&P COMPANY, L.P.  
EUGSTER 2-28C4  
SECTION 28, T3S, R4W, U.S.B.&M.

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 3.51 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EAST 2.54 MILES ON A GRAVEL COUNTY ROAD TO THE BEGINNING OF THE ACCESS ROAD;

TURN RIGHT AND FOLLOW ROAD FLAGS SOUTH, THEN EAST, THEN SOUTH 1.43 MILES TO THE PROPOSED WELL LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 7.48 MILES.

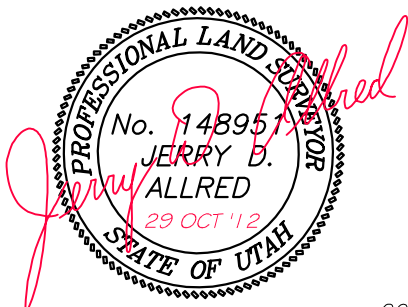
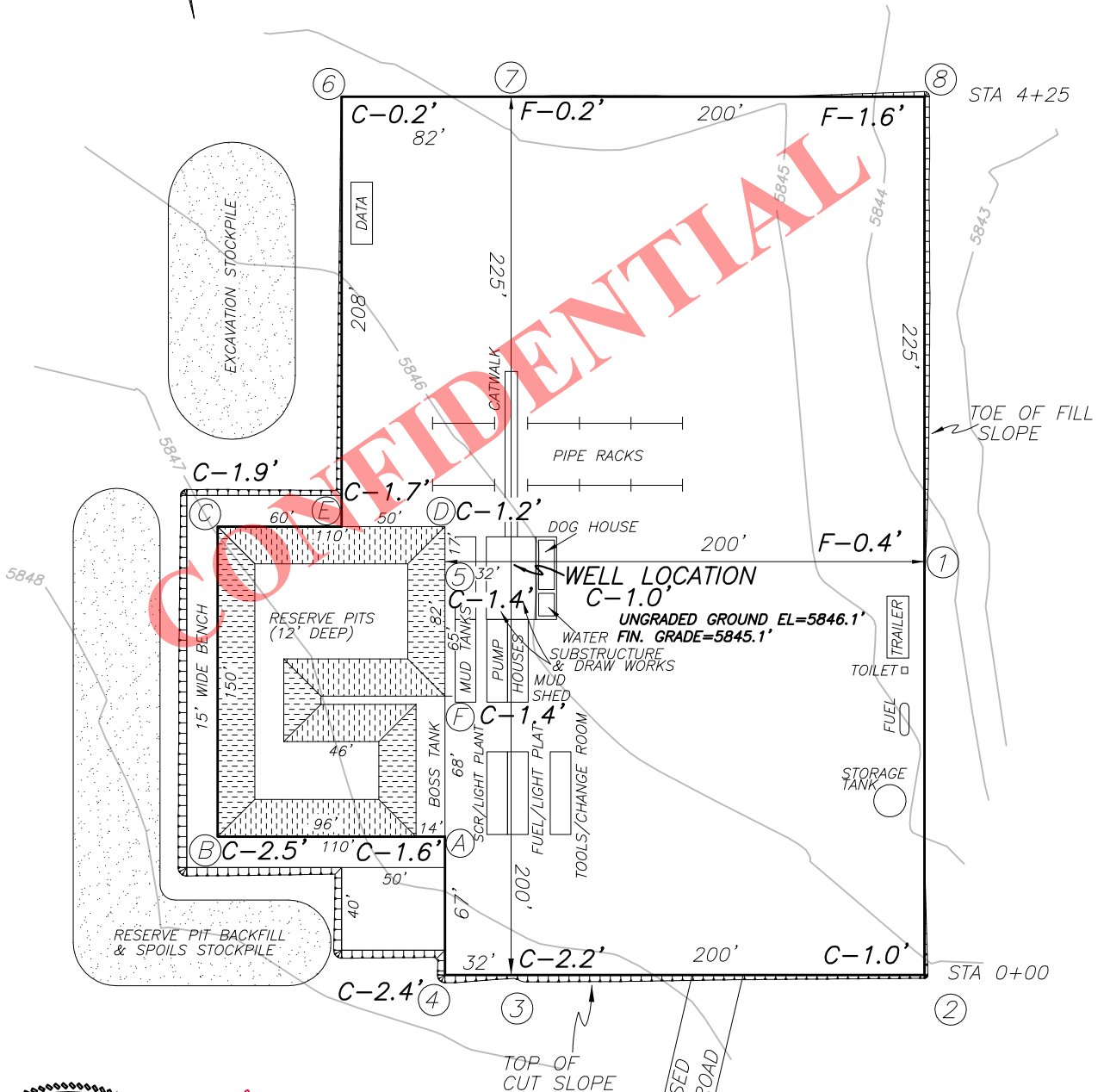
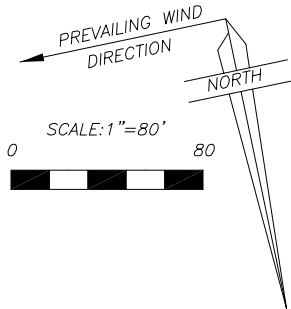
**EP ENERGY E & P COMPANY, L.P.****FIGURE #1**

LOCATION LAYOUT FOR

EUGSTER 2-28C4

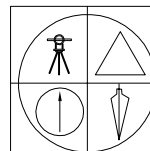
SECTION 28, T3S, R4W, U.S.B.&amp;M.

900' FNL, 818' FWL



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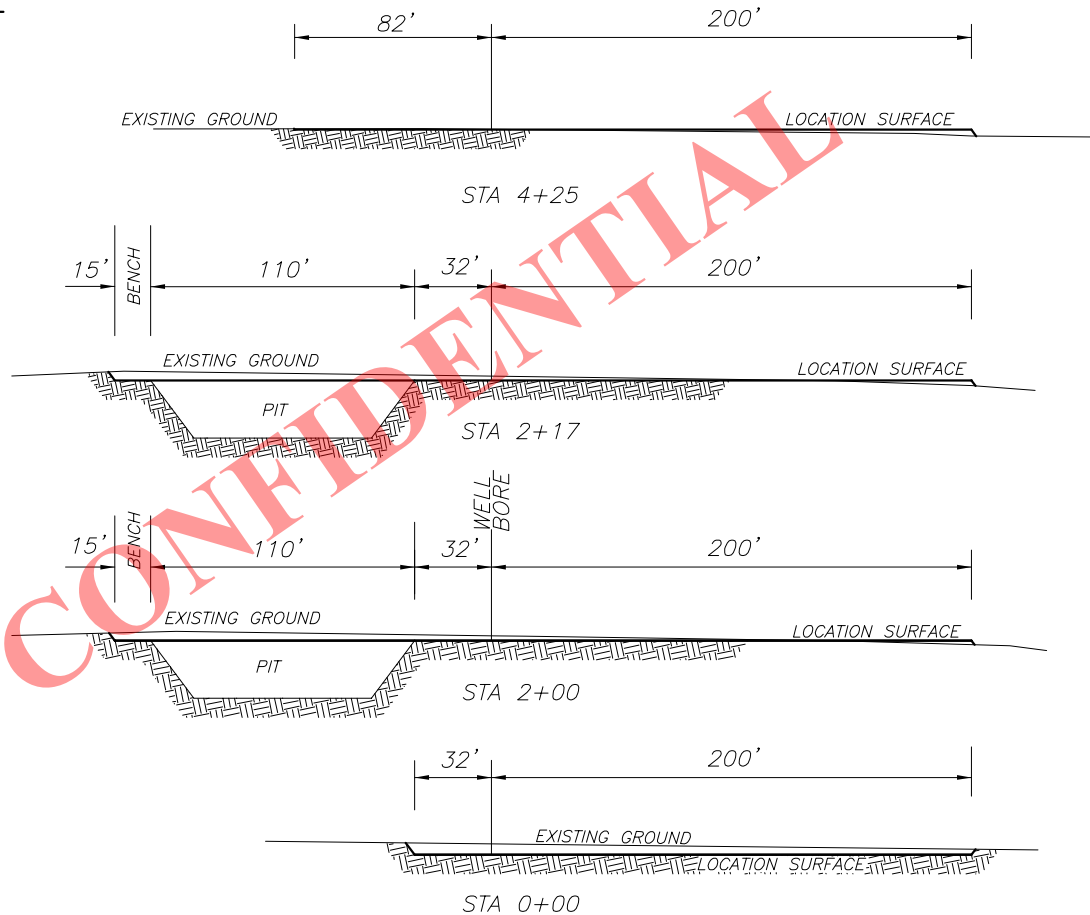
**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS1235 NORTH 700 EAST--P.O. BOX 975  
DUCHESNE, UTAH 84021  
(435) 738-5352**RECEIVED:** December 10, 2012

**EP ENERGY E & P COMPANY, L.P.****FIGURE #2****LOCATION LAYOUT FOR****EUGSTER 2-28C4****SECTION 28, T3S, R4W, U.S.B.&M.****900' FNL, 818' FWL**

1"=40'  
X-SECTION  
SCALE

1"=80'

NOTE: ALL CUT/FILL  
SLOPES ARE 1½:1  
UNLESS OTHERWISE  
NOTED

APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 9497 CU. YDS.

PIT CUT = 4572 CU. YDS.

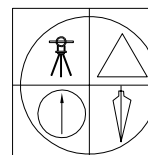
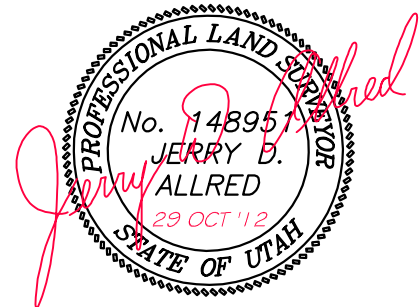
TOPSOIL STRIPPING: (6") = 2517 CU. YDS.

REMAINING LOCATION CUT = 2408 CU. YDS

TOTAL FILL = 1122 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=2218 CU. YDS.



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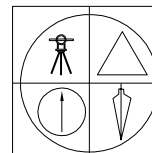
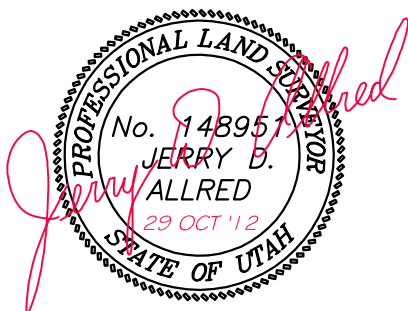
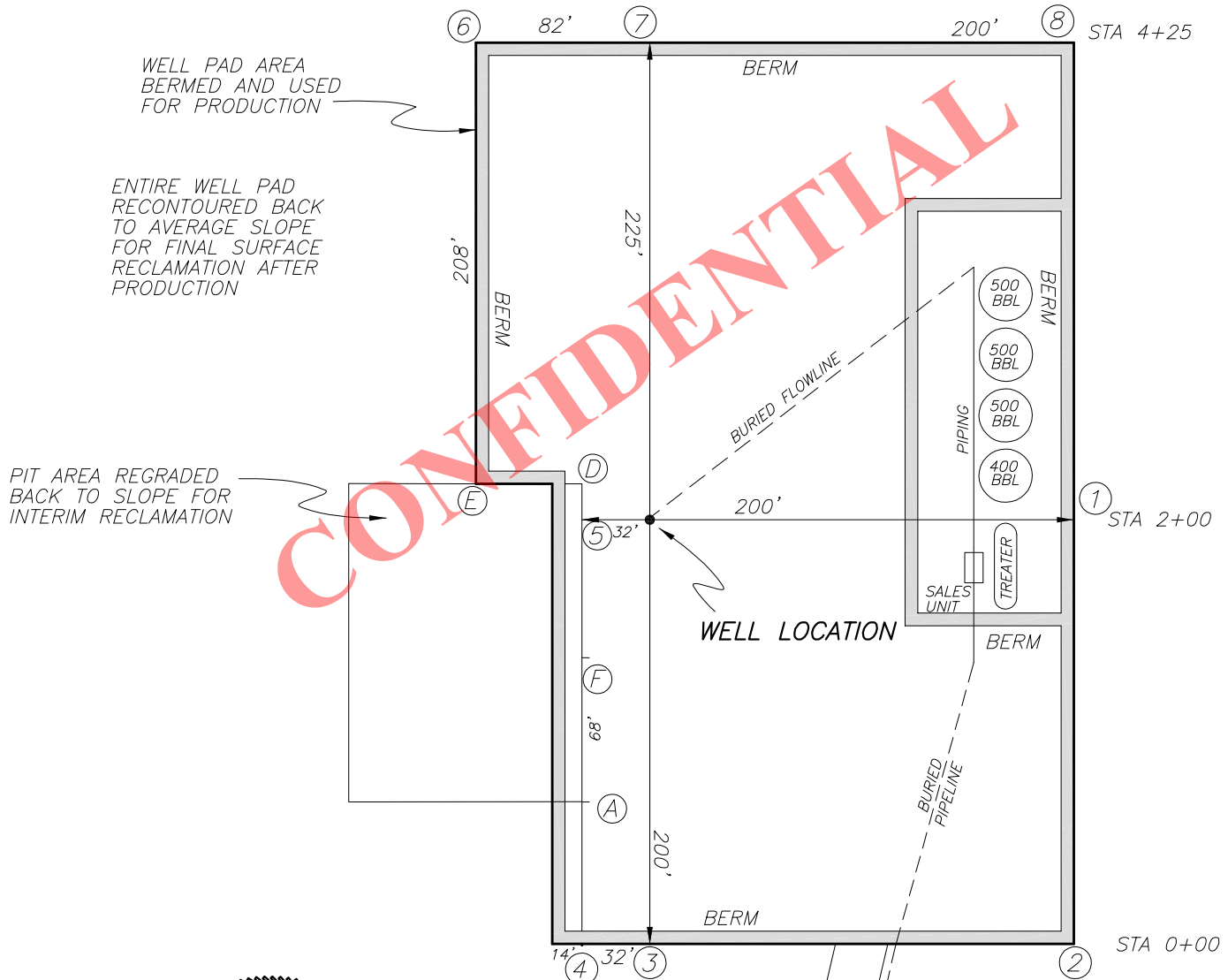
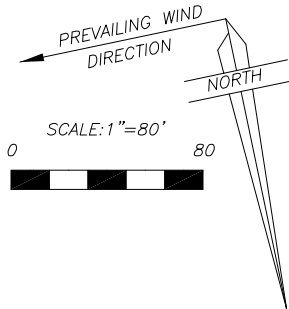
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**EP ENERGY E & P COMPANY, L.P.****FIGURE #3**

LOCATION LAYOUT FOR  
**EUGSTER 2-28C4**  
 SECTION 28, T3S, R4W, U.S.B.&M.  
 900' FNL, 818' FWL



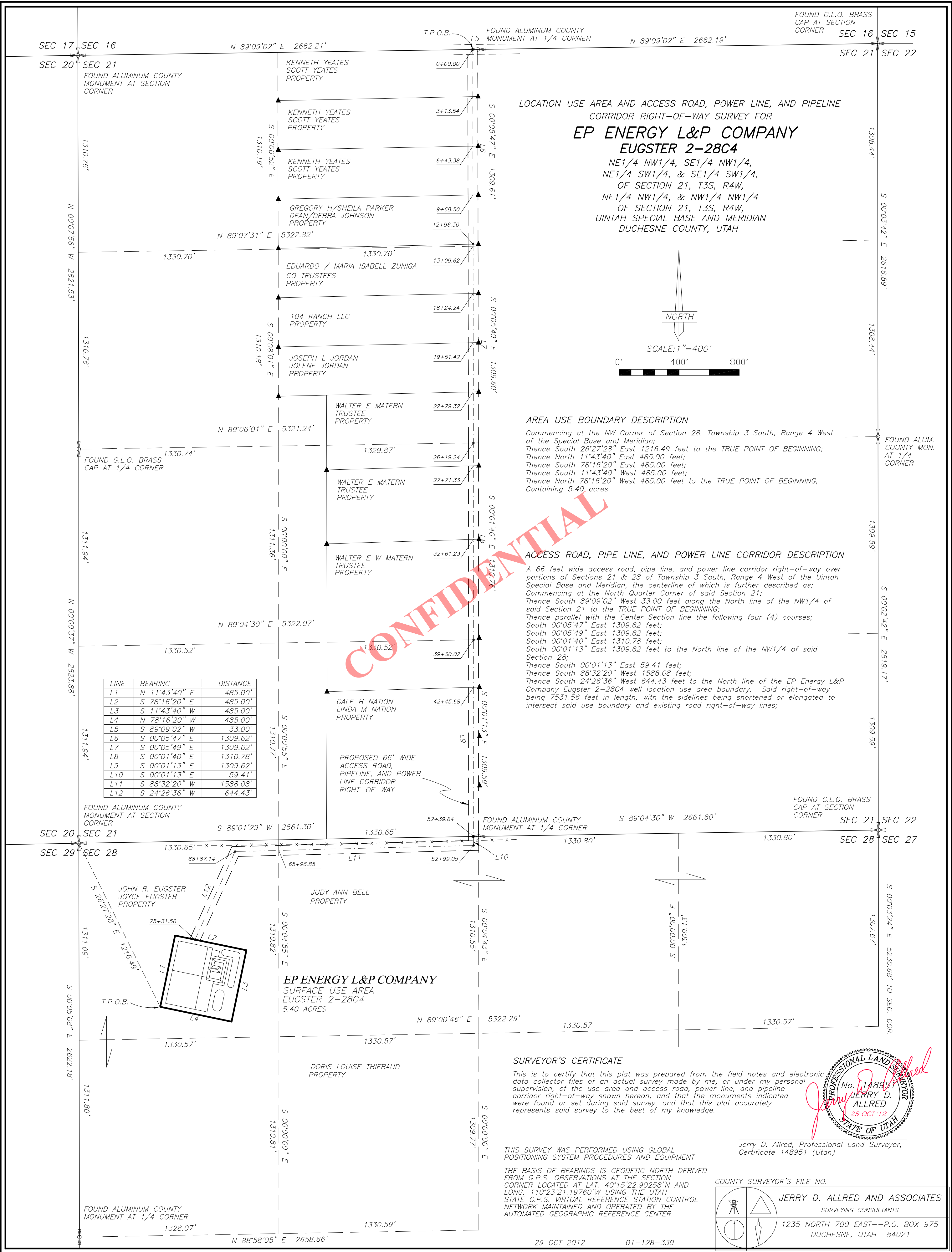
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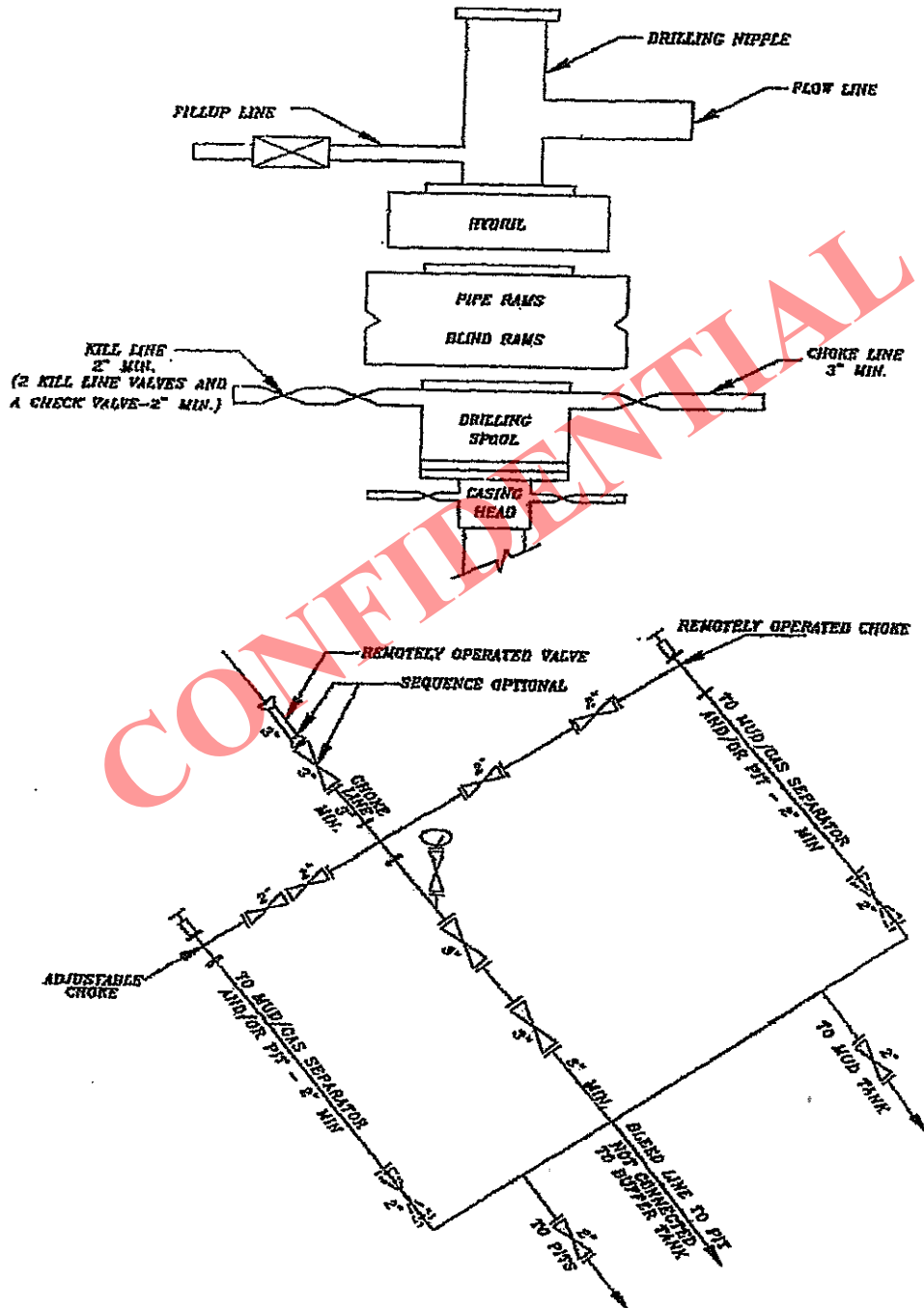
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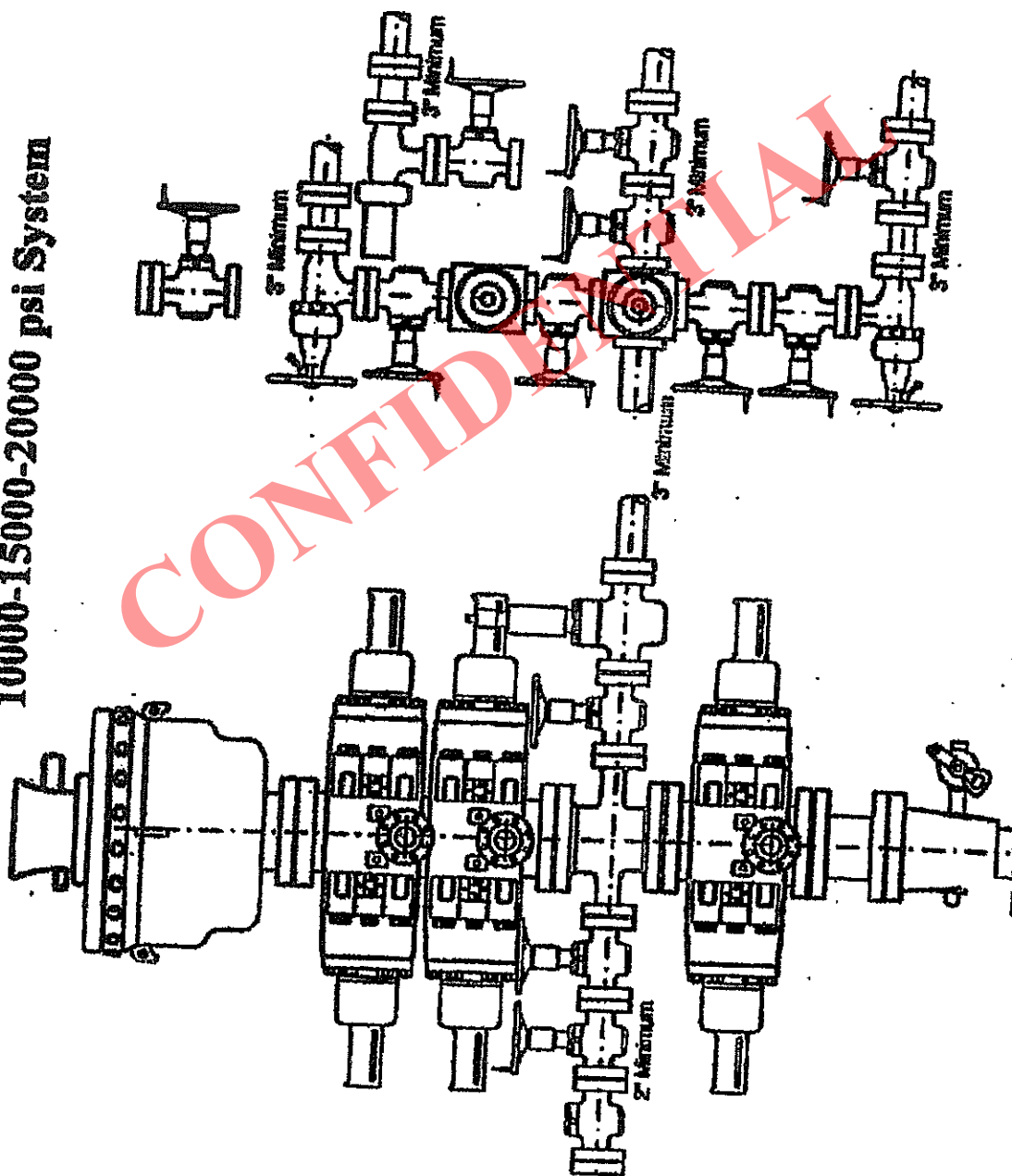


# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



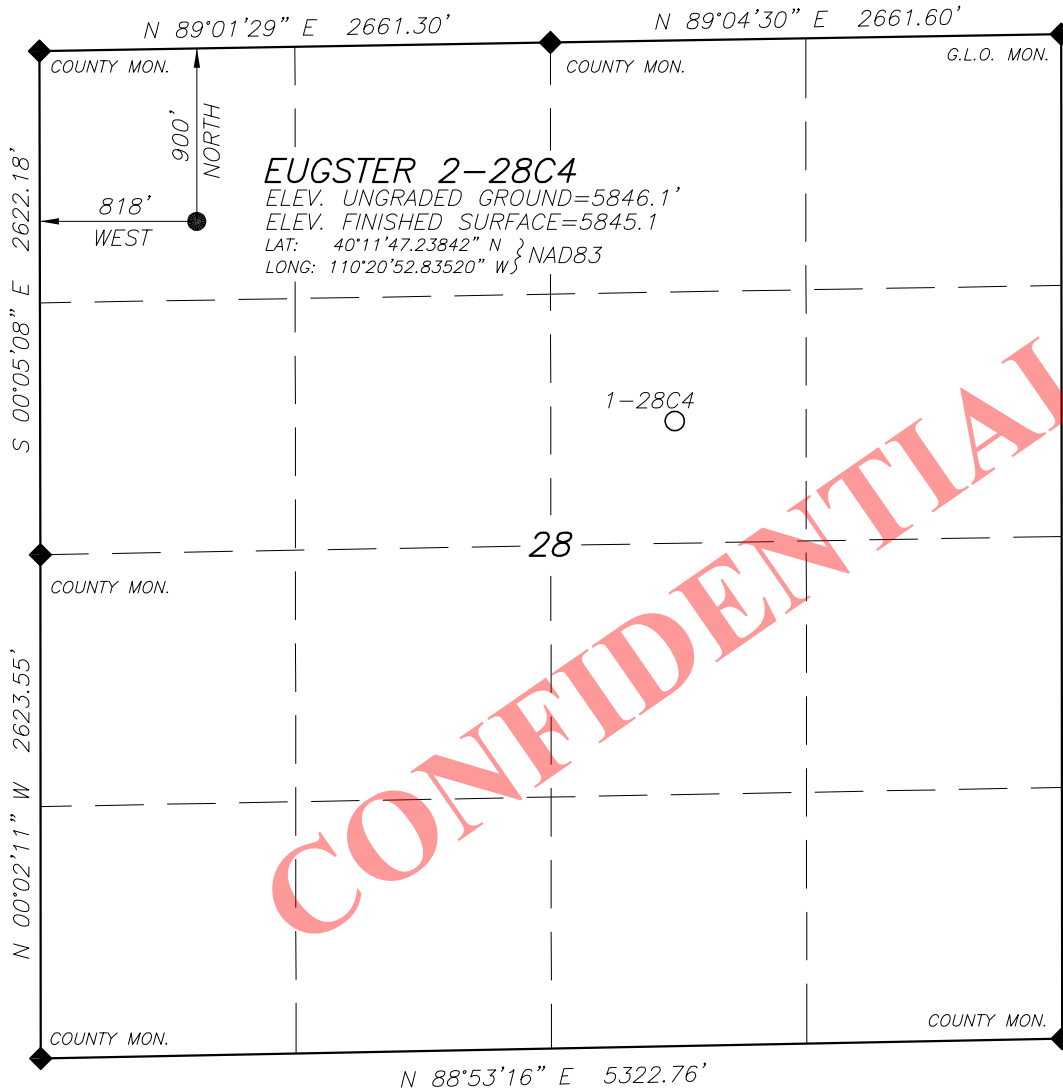


10000-15000-20000 psi System



**EP ENERGY E & P COMPANY, L.P.****WELL LOCATION****EUGSTER 2-28C4**

LOCATED IN THE NW¼ OF THE NW¼ OF  
SECTION 28, T3S, R4W, U.S.B.&M.  
DUCHESNE COUNTY, UTAH

**LEGEND AND NOTES**

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

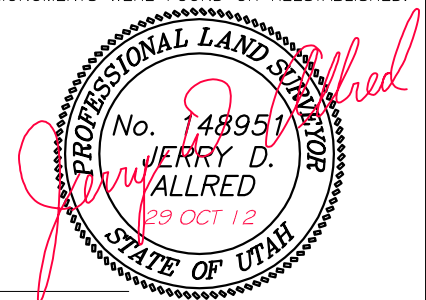
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE QUARTER CORNER LOCATED AT LAT. 40°10'34.94456"N AND LONG. 110°32'23.62819"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

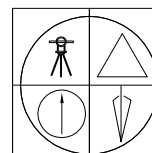
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,  
CERTIFICATE NO. 148951 (UTAH)

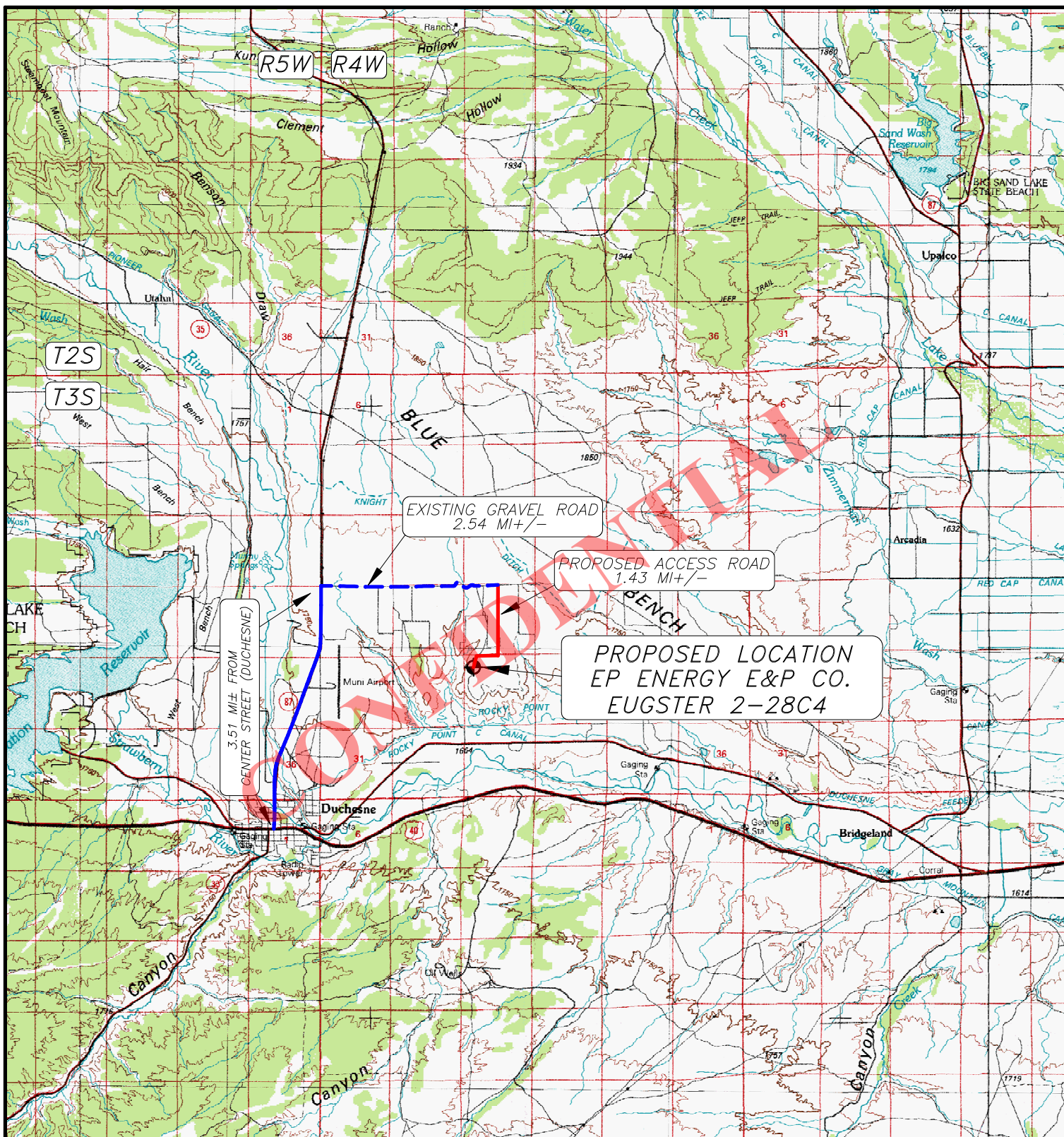


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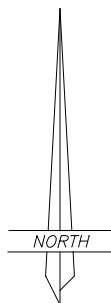
## LEGEND:

◆ PROPOSED WELL LOCATION

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**EP ENERGY E & P COMPANY, L.P.**

**EUGSTER 2-28C4**

**SECTION 28, T3S, R4W, U.S.B.&M.**

**900' FNL 818' FWL**

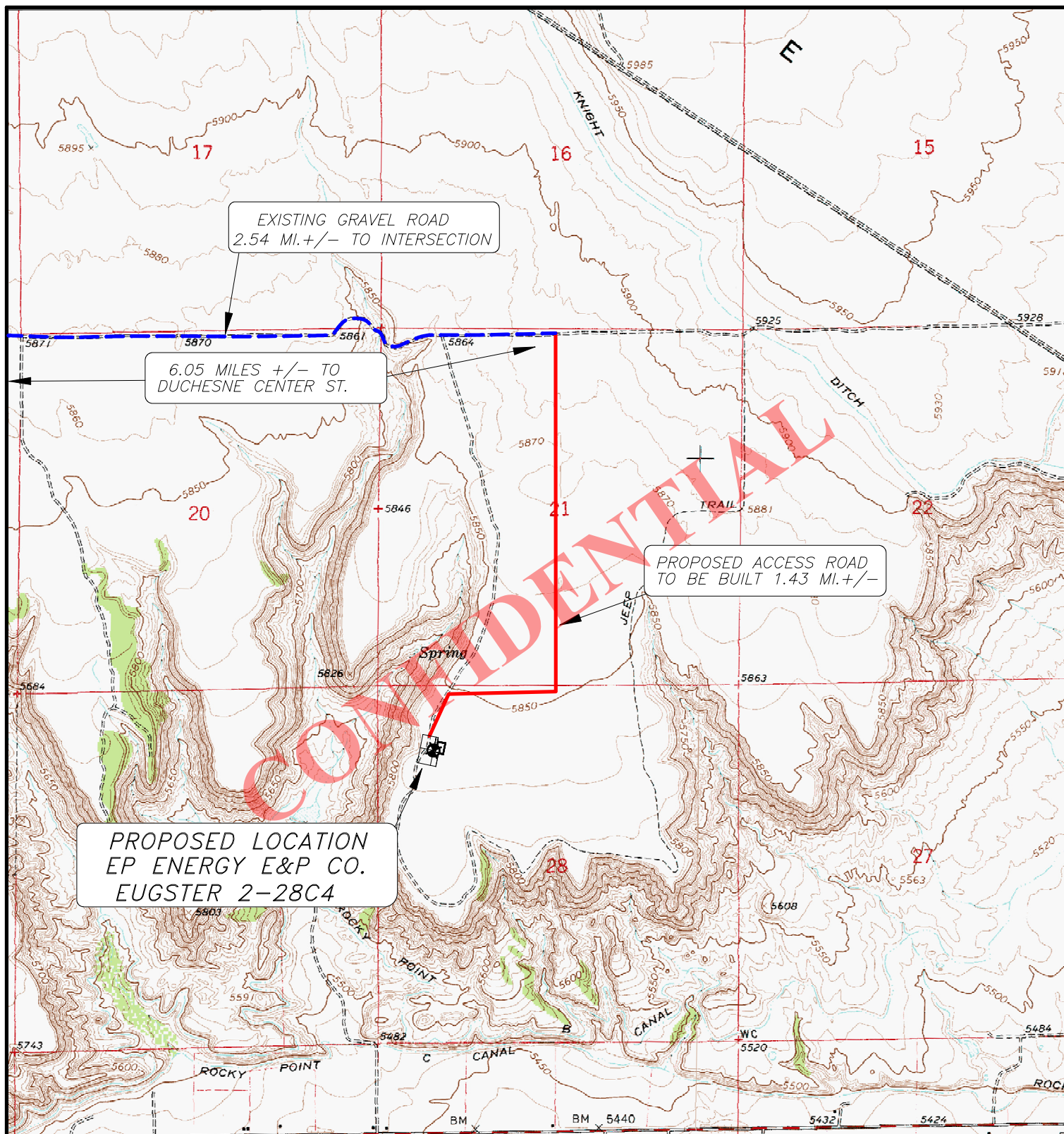
**TOPOGRAPHIC MAP "A"**





SCALE: 1"=10,000'

30 OCT 2012

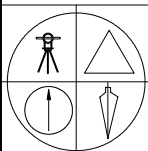
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**LEGEND:**

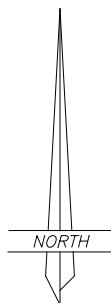
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING PAVED ROAD

01-128-339



**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

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**EP ENERGY E & P COMPANY, L.P.****EUGSTER 2-28C4****SECTION 28, T3S, R4W, U.S.B.&M.****900' FNL 818' FWL****TOPOGRAPHIC MAP "B"**

SCALE: 1"=2000'  
30 OCT 2012

**RECEIVED:** December 10, 2012




SCALE: 1"=2000'  
30 OCT 2012

**AFFIDAVIT OF SURFACE DAMAGE AGREEMENT**

Michael J. Walcher personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Michael J. Walcher. I am a Sr. Staff Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Eugster 2-28C4 well (the "Well") to be located in the NW/4 NW/4 of Section 28, Township 3 South, Range 4 West, USM, Duchesne County, Utah, on a tract of land known as Duchesne County (Tax Roll) Parcel No. 00-0034-4784, Serial #3151-1-3, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is John R. Eugster and Joyce M. Eugster, whose address is 11496 Gold Dust Drive, South Jordan, Utah 84095 (the "Surface Owner"). The Surface Owner's telephone number is (801) 971-5156.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated November 17, 2012 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT.

  
Michael J. Walcher

**ACKNOWLEDGMENT**

STATE OF TEXAS

§

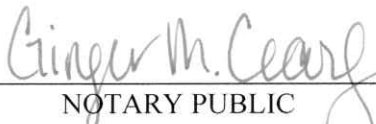
COUNTY OF HARRIS

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This instrument was acknowledged before me on this the 5<sup>th</sup> day of December, 2012 by Michael J. Walcher as a Landman for EP ENERGY E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.



  
NOTARY PUBLIC

My Commission Expires: Aug 2, 2014



EP Energy E&P Company, L.P.

**Related Surface Information**

1. **Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately 1.43 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Duchesne City Water

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor 1.43 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15<sup>th</sup>, and prior to ground frost, or seed will be planted after the frost has left and before May 15<sup>th</sup>. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
  1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
  2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
  3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
  1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
  2. Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

John R. Eugster and Joyce M. Eugster  
11496 Gold Dust Drive  
South Jordan, Utah 84095  
801-971-5156

**Other Information:**

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

**Construction and Reclamation:**

EP Energy E&P Company, L.P.  
Wayne Garner  
PO Box 410  
Altamont, Utah 84001  
435-454-3394 – Office  
435-823-1490 – Cell

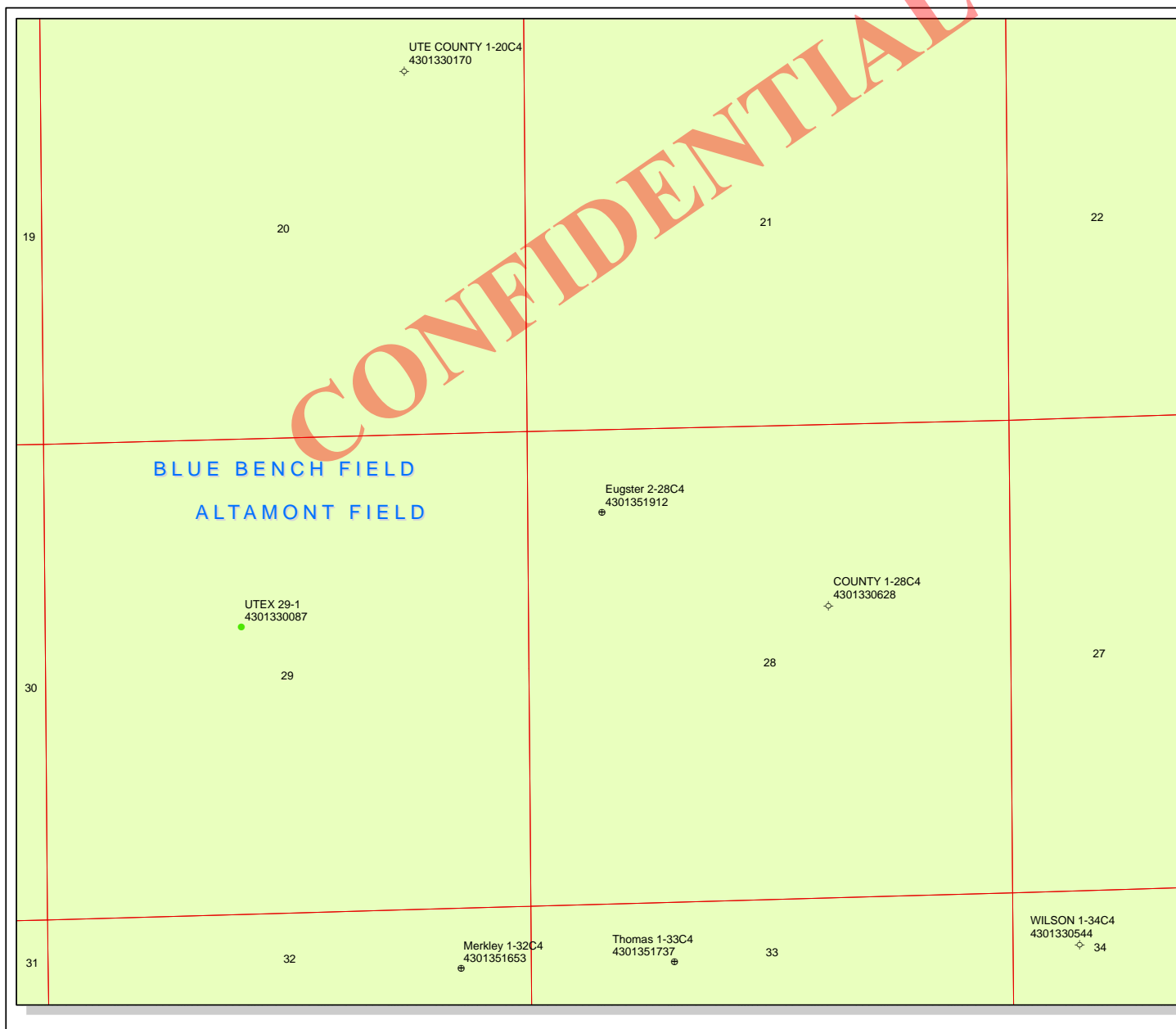
**Regarding This APD**

EP Energy E&P Company, L.P.  
Maria S. Gomez  
1001 Louisiana, Rm 2730D  
Houston, Texas 77002  
713-997-5038 – Office

**Drilling**

EP Energy E&P Company, L.P.  
Joe Cawthorn – Drilling Engineer  
1001 Louisiana, Rm 2523B  
Houston, Texas 77002  
713-997-5929 – office  
832-465-2882 – Cell

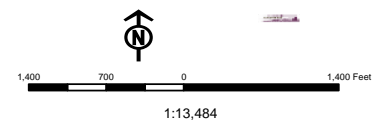




**API Number: 4301351912**  
**Well Name: Eugster 2-28C4**  
**Township T03.0S Range R04.0W Section 28**  
**Meridian: UBM**  
**Operator: EP ENERGY E&P COMPANY, L.P.**

Map Prepared:  
 Map Produced by Diana Mason

Units	Wells Query
<b>STATUS</b>	<b>Status</b>
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LOC - New Location
PI OIL	OPS - Operation Suspended
PP GAS	PA - Plugged Abandoned
PP GEOTHERM	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
<b>Fields</b>	TA - Temp. Abandoned
Unknown	TW - Test Well
ABANDONED	WDW - Water Disposal
ACTIVE	WW - Water Injection Well
COMBINED	WSW - Water Supply Well
INACTIVE	Bottom Hole Location - Oil/Gas/Dib
STORAGE	
TERMINATED	



Well Name	EP ENERGY E&P COMPANY, L.P. Eugster 2-28C4 43013519120000			
String	COND	SURF	I1	L1
Casing Size(in)	13.375	9.625	7.000	4.500
Setting Depth (TVD)	800	3100	8400	11100
Previous Shoe Setting Depth (TVD)	0	800	3100	8400
Max Mud Weight (ppg)	8.8	9.5	10.3	11.6
BOPE Proposed (psi)	1000	5000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	12410
Operators Max Anticipated Pressure (psi)	6696			11.6

Calculations	COND String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	366	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	270	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	190	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	190	NO OK
Required Casing/BOPE Test Pressure=		800	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

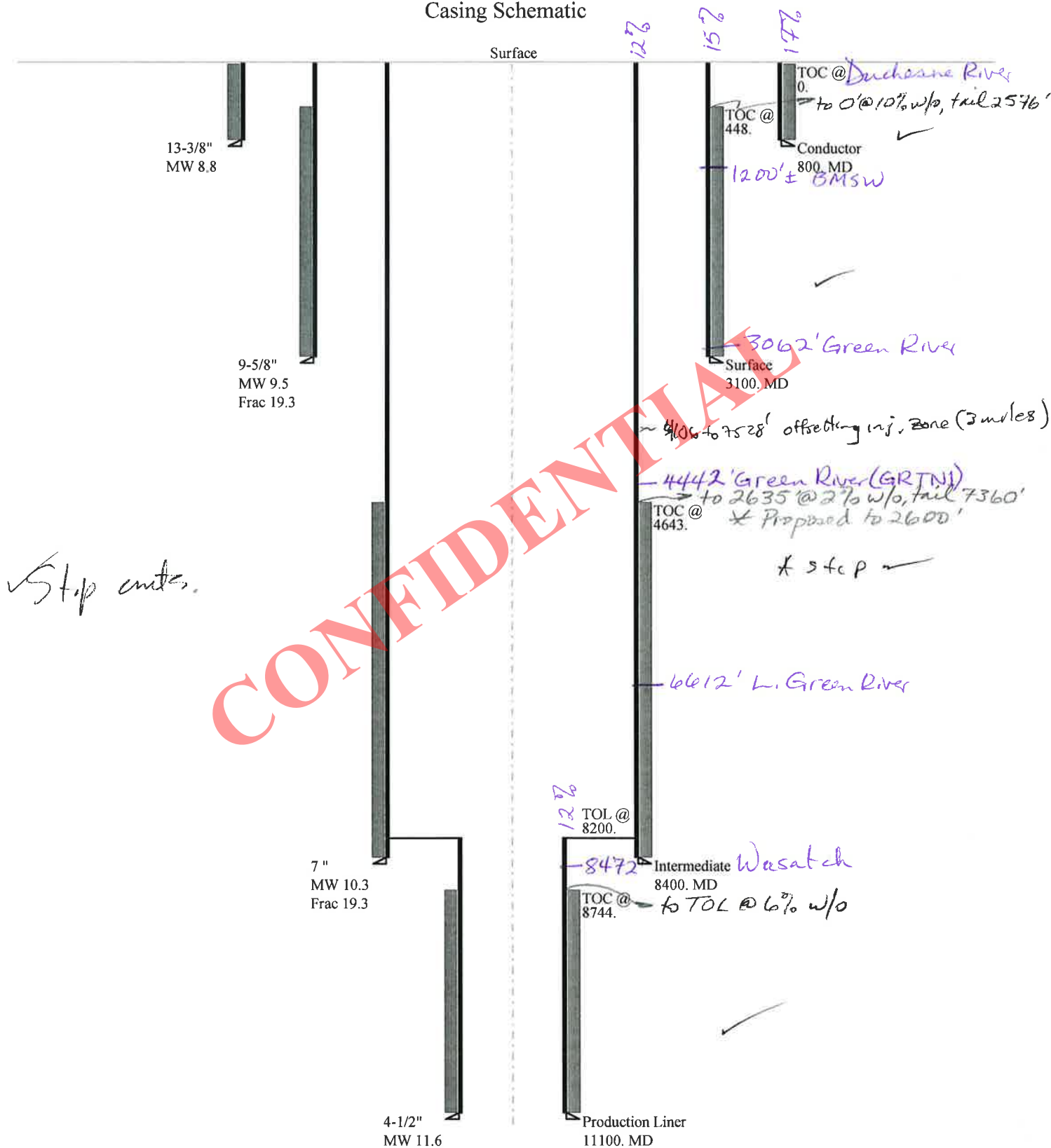
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1531	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1159	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	849	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1025	NO OK
Required Casing/BOPE Test Pressure=		3100	psi
*Max Pressure Allowed @ Previous Casing Shoe=		800	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4499	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3491	YES 5M BOP stack, 5M Annular, and 5M kill lines
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2651	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3333	NO OK
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3100	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6696	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5364	YES 10M BOE w/rotating head, 5M annular, blind
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4254	YES rams & mud cross
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6102	YES OK
Required Casing/BOPE Test Pressure=		8687	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8400	psi *Assumes 1psi/ft frac gradient

## 43013519120000 Eugster 2-28C4

## Casing Schematic



Well name:	<b>43013519120000 Eugster 2-28C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Conductor	Project ID: 43-013-51912
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.800 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 85 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 190 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 366 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

**Non-directional string.**

Tension is based on air weight.  
Neutral point: 696 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	800	13.375	54.50	J-55	ST&C	800	800	12.49	9926
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	366	1130	3.090	366	2730	7.46	43.6	514	11.79 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: March 11, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 800 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013519120000 Eugster 2-28C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Surface	Project ID: 43-013-51912
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 9.500 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 117 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 448 ft

**Burst**

Max anticipated surface pressure: 2,418 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 3,100 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 2,662 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 8,400 ft  
Next mud weight: 10.300 ppg  
Next setting BHP: 4,495 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 3,100 ft  
Injection pressure: 3,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3100	9.625	40.00	N-80	LT&C	3100	3100	8.75	39447
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1530	3090	2.020	3100	5750	1.85	124	737	5.94 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: March 11, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3100 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013519120000 Eugster 2-28C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Intermediate	Project ID: 43-013-51912
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 10.300 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 192 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 4,643 ft

**Burst**

Max anticipated surface pressure: 4,247 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 6,095 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 7,090 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 11,100 ft  
Next mud weight: 11.600 ppg  
Next setting BHP: 6,689 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 8,400 ft  
Injection pressure: 8,400 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8400	7	29.00	P-110	LT&C	8400	8400	6.059	94858
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4495	8530	1.898	6095	11220	1.84	243.6	797	3.27 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801-538-5357  
FAX: 801-359-3940

Date: March 11, 2013  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 8400 ft, a mud weight of 10.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013519120000 Eugster 2-28C4</b>	
Operator:	<b>EP ENERGY E&amp;P COMPANY, L.P.</b>	
String type:	Production Liner	Project ID: 43-013-51912
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 11.600 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 229 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 8,744 ft

**Burst**

Max anticipated surface pressure: 4,247 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 6,689 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 10,603 ft

Liner top: 8,200 ft

**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2900	4.5	13.50	P-110	LT&C	11100	11100	3.795	16249
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6689	10680	1.597	6689	12410	1.86	39.1	338	8.63 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: March 11, 2013  
Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 11100 ft, a mud weight of 11.6 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** EP ENERGY E&P COMPANY, L.P.  
**Well Name** Eugster 2-28C4  
**API Number** 43013519120000 **APD No** 7262 **Field/Unit** ALTAMONT  
**Location: 1/4,1/4** NWNW **Sec** 28 **Tw** 3.0S **Rng** 4.0W 900 FNL 818 FWL  
**GPS Coord (UTM)** 555496 4449769 **Surface Owner** John & Joyce Eugster

### **Participants**

Jared Thacker (EP Energy); David Allred (EP Energy, land); Ryan Allred & Clayton Packer (Allred & Associates); Dennis Ingram (Division Oil, Gas & Mining)

### **Regional/Local Setting & Topography**

The Eugster 2-28C4 well pad is proposed and located in northeastern Utah in the Uintah Basin approximately 3.51 miles north of Duchesne and 2.54 miles east of U.S. Highway 87 on Blue Bench. Blue Bench is a broad, dry, sagebrush mesa that is mostly undeveloped and void of trees. The immediate topography is nearly flat but slopes gently to the south. This area is south and north of any residential housing and/or trailer dwelling spread out in five to ten acre lots. The Duchesne River Drainage is located approximately one mile south of this well site and drains the Uinta Mountains southerly until it reaches the town of Duchesne, then turns east where it joins the Strawberry River and flows toward Myton Utah. Immediately west of the proposed well pad a large canyon drains storm or snow melt south into rural farmland and the Duchesne River. Several miles north of this site the elevation rises into broken, shelf like sandstone benches that are commonly found throughout much of Utah's pinion juniper habitat between the farmlands and quaken aspen stands. The Blue Bench was historically utilized to grow alfalfa after the construction of an irrigation canal from Rock Creek.

### **Surface Use Plan**

**Current Surface Use**  
Grazing

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
1.43	<b>Width</b> 342 <b>Length</b> 425	Onsite	UNTA

**Ancillary Facilities** N

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Sagebrush, prairie grass, prickly pear cactus, rabbit brush; potential mule deer, coyote, fox, rabbit and smaller mammals native to region.

#### **Soil Type and Characteristics**

Snow cover, typically, reddish, fine grained sandy loam with some cobbles

**Erosion Issues** N



**Sedimentation Issues** N**Site Stability Issues** N**Drainage Diversion Required?** N**Berm Required?** Y

Location

**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N**Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	High permeability	20
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		25

1 Sensitivity Level

**Characteristics / Requirements**

Reserve pit proposed along the eastern side of location in 2.5 feet of cut, measuring 110' wide by 150' long by 12' deep, and having prevailing winds from the west.

**Closed Loop Mud Required?** **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?****Other Observations / Comments**

Surface nearly flat, located on the southern end of Blue Bench and having a large, mostly dry canyon to the west that carries storm waters to the farmland and river further south.

Dennis Ingram  
Evaluator

1/10/2013  
Date / Time

# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
7262	43013519120000	LOCKED	OW	P	No
<b>Operator</b>	EP ENERGY E&P COMPANY, L.P.		<b>Surface Owner-APD</b>	John & Joyce Eugster	
<b>Well Name</b>	Eugster 2-28C4		<b>Unit</b>		
<b>Field</b>	ALTAMONT		<b>Type of Work</b>	DRILL	
<b>Location</b>	NWNW 28 3S 4W U 900 FNL (UTM) 555495E 4449766N		818 FWL GPS Coord		

#### Geologic Statement of Basis

El Paso proposes to set 40 feet of conductor and 3,400 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,200 feet. A search of Division of Water Rights records indicates that there are 12 water wells within a 10,000 foot radius of the center of Section 28. These wells probably produce water from alluvium associated with the Duchesne River and the Duchesne River Formation. Depths of the wells fall in the range of 30-150 feet. Depth is not listed for 1 well. The wells are listed as being used for irrigation, stock watering and domestic. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill  
**APD Evaluator**

1/17/2013  
**Date / Time**

#### Surface Statement of Basis

A presite visit was scheduled and done on January 10, 2013 to take input and address issues regarding the construction and drilling of the Taylor 3-9C4 well. John Eugster was shown as the landowner of record and therefore invited to the presite meeting prior to the visit but did not attend.

The topography at this wellsite is a nearly flat, bench like habitat on the southern tip of Blue Bench. A large canyon is located just west of this proposed pad and the map shows a fresh water spring near the head of that canyon just over a quarter mile north. The operator shall install a 20 mil synthetic liner in a proposed reserve pit along the eastern portion of the pad, which is the furthest distance possible from the canyon wall. There aren't any drainages to divert, and the surface is nearly flat showing 2.4 feet of cut along the northeastern corner of the pad. The operator shall install berming around this location to assure any fluid releases are kept on the pad.

Dennis Ingram  
**Onsite Evaluator**

1/10/2013  
**Date / Time**

#### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the east side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

**RECEIVED: March 18, 2013**

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/10/2012

API NO. ASSIGNED: 43013519120000

WELL NAME: Eugster 2-28C4

OPERATOR: EP ENERGY E&amp;P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NWNW 28 030S 040W

Permit Tech Review: ☒

SURFACE: 0900 FNL 0818 FWL

Engineering Review: ☒

BOTTOM: 0900 FNL 0818 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.19646

LONGITUDE: -110.34800

UTM SURF EASTINGS: 555495.00

NORTHINGS: 4449766.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: STATE - 400JU0708
- ☐ Potash
- ☐ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: Duchesne City
- ☐ RDCC Review:
- ☒ Fee Surface Agreement
- ☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

- ☐ R649-2-3.
- Unit:
- ☐ R649-3-2. General
- ☐ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: Cause 139-90
- Effective Date: 5/9/2012
- Siting: 4 Prod LGRRV-WSTC Wells
- ☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhll  
8 - Cement to Surface -- 2 strings - hmadonald  
13 - Cement Volume Formation (3a) - hmadonald

RECEIVED: March 18, 2013



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** Eugster 2-28C4  
**API Well Number:** 43013519120000  
**Lease Number:** Fee  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 3/18/2013

### Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2900' MD in order to adequately isolate the Green River formation.

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

### Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program  
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

### **Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

### **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

**Approved By:**

A handwritten signature in black ink, appearing to read "J. Rogers", written over a faint horizontal line.

For John Rogers  
Associate Director, Oil & Gas



CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NW NW S-28 T03S R04W

## 24 Hr Notice of Running and Cementing of 13 3/8" Surface Conductor on the Well: Eugster 2-28C4

1 message

RLANDRIG008 <RLANDRIG008@epenergy.com>

Wed, Sep 11, 2013 at 7:00 AM

To: Alexis Huefner <alexishuefner@utah.gov>, Carol Daniels <caroldaniels@utah.gov>, Dennis Ingram <dennisingram@utah.gov>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Gaydos, Tommy L" <Tommy.Gaydos@epenergy.com>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>

Sept. 11, 2013

This is 24 Hr notice of Run'g & Cmt'g 13 3/8" Surface Conductor on the following well.

Well: Eugster 2-28C4

API # 43013519120000

Duchesne County

Rig: Leon Ross Drilling Rig # 26

THANKS,

Steve Murphy

RECEIVED

SEP 11 2013

DIV. OF OIL, GAS & MINING

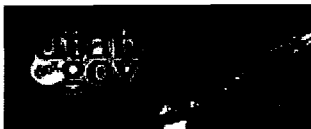
RLANDRIG008@ELPASO.COM

RIG PHONE 435-823-1726

HAND HELD 435-823-1725

PRECISION DRILLING RIG 404





Carol Daniels &lt;caroldaniels@utah.gov&gt;

**24 Hr Spud Notice on the Eugster 2-28C4**

1 message

**CONFIDENTIAL****RLANDRIG008** <RLANDRIG008@epenergy.com>

Fri, Sep 6, 2013 at 5:30 PM

To: Carol Daniels <caroldaniels@utah.gov>, Dennis Ingram <dennisingram@utah.gov>, Alexis Huefner <alexishuefner@utah.gov>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Gaydos, Tommy L" <Tommy.Gaydos@epenergy.com>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>

Sept. 04, 2013

This is 24 Hr notice of Initial Spudding in on the following well.

**3S 4W 28**

Well: Eugster 2-28C4

API # 43013519120000

Duchesne County

Rig: Leon Ross Bucket Rig # 33

Time of Spudding was 09:00 Hrs 09/04/13

THANKS,

Steve Murphy

**RECEIVED****SEP 06 2013****DIV. OF OIL, GAS & MINING**

RLANDRIG008@ELPASO.COM

RIG PHONE 435-823-1726

HAND HELD 435-823-1725

PRECISION DRILLING RIG 404

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE



Alexis Huefner <alexishuefner@utah.gov>

---

## 24 Hr Spud Notice on the Eugster 2-28C4

1 message

---

RLANDRIG008 <RLANDRIG008@epenergy.com>

Fri, Sep 6, 2013 at 5:30 PM

To: Carol Daniels <caroldaniels@utah.gov>, Dennis Ingram <dennisingram@utah.gov>, Alexis Huefner <alexishuefner@utah.gov>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Gaydos, Tommy L" <Tommy.Gaydos@epenergy.com>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>

Sept. 04, 2013

This is 24 Hr notice of Initial Spudding in on the following well.

Well: Eugster 2-28C4

API # 43013519120000

Duchesne County

900 FWL 818 FWL

DWNW 28 35 4W

Rig: Leon Ross Bucket Rig # 33

Time of Spudding was 09:00 Hrs 09/04/13

THANKS,

Steve Murphy

RLANDRIG008@ELPASO.COM

RIG PHONE 435-823-1726

HAND HELD 435-823-1725

PRECISION DRILLING RIG 404

---

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY

CONFIDENTIAL



NWNU S-28 T03S R04W 4301351912

## Notification of Run'g, Cmt'g 7" intermediate Casing, Testing of 11" 10K BOPE

RLANDRIG008 <RLANDRIG008@epenergy.com>

Sun, Oct 6, 2013 at 9:01 PM

To: Alexis Huefner <alexishuefner@utah.gov>, Carol Daniels <caroldaniels@utah.gov>, Dennis Ingram <dennisingram@utah.gov>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Gaydos, Tommy L" <Tommy.Gaydos@epenergy.com>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>

Oct. 06, 2013

Well: Eugster 2-28C4

API # 43013519120000

County: Duchesne

Rig: Precision Drilling Rig #404

24 Hrs Notice for running and cementing of 7" Intermediate Casing 8,480' MD. Will be testing 11" 10 K BOPE 12 Hrs later.

Best Regards

Steven Murphy

Rig Site Supervisor

EP Energy

C: 435-823-1725

RECEIVED

OCT 06 2013

DIV. OF OIL, GAS & MINING



CONFIDENTIAL

NW NW 5-28 T03S R04W

## 24 Hr notice of Run'g & Cmt'g 5" Prod Liner on Well: Eugster 2-28C4

RLANDRIG008 <RLANDRIG008@epenergy.com>

Fri, Oct 11, 2013 at 3:12 AM

To: Alexis Huefner <alexishuefner@utah.gov>, Carol Daniels <caroldaniels@utah.gov>, Dennis Ingram <dennisingram@utah.gov>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Gaydos, Tommy L" <Tommy.Gaydos@epenergy.com>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>

Oct. 11, 2013

Well: Eugster 2-28C4

API # 43013519120000

County: Duchesne

Rig: Precision Drilling Rig #404

24 Hrs Notice for running and cementing of 5" Production liner at 11,050' MD.

Best Regards

Steven Murphy

Rig Site Supervisor

EP Energy

C: 435-823-1725

RECEIVED

OCT 11 2013

DIV. OF OIL, GAS & MINING

Steve Murphy

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Eugster 2-28C4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		9. API NUMBER: 43013519120000
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0900 FNL 0818 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 28 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>10/29/2013</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Initial Completion"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

Date: October 28, 2013By: 

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 10/28/2013

**Eugster 2-28 C4  
Initial Completion  
43013519120000**

**The following precautions will be taken until the RCA for the Conover is completed:**

1. Review torque turning and running of the 7" and 5" liner of anomalies.
2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.
3. Test all lubricators, valves and BOP's to working pressure.
4. Wellhead isolation tools will continue to be used to isolate the wellhead during the frac.
5. Monitor the surface casing during frac:
  - a. Lay a flowline to the flow back tank and keep the valve open.
  - b. This line will remain in place until a wire line set retrievable packer is in place isolating the 5" casing from the 7" after the frac.
6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

**Completion Information (Wasatch Formation)**

- Stage 1: RU WL unit with 10K lubricator and test to 10,000 psi with water. Perforations from ~10,626' – 10,938' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~145,000# PowerProp 20/40.
- Stage 2: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~10,572'. Test CBP and casing to 8500 psi. Perforations from ~10,215' – 10,562' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~145,000# TLC 20/40.
- Stage 3: RU WL unit with 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~10,200'. Test CBP and casing to 8500 psi. Perforations from ~9,870' – 10,190' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# TLC 20/40.
- Stage 4: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~9,847'. Test CBP and casing to 8500 psi. Perforations from ~9,574' – 9,837' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~145,000# TLC 20/40.
- Stage 5: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~9,555'. Test CBP and casing to 8500 psi. Perforations from ~9,256' – 9,545' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# TLC 20/40.
- Stage 6: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~9,244'. Test CBP and casing to 8500 psi. Perforations from ~8,954' – 9,234' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~150,000# TLC 20/40.

Stage 7: RU 10K lubricator and test to 10,000 psi with water. Set 10K CBP @ ~8,942'. Test CBP and casing to 8500 psi. Perforations from ~8,689' – 8,932' with ~5,000 gallons of 15% HCL acid, ~3,000# of 100 mesh sand and ~135,000# TLC 20/40.



**Current Wellbore Schematic**

Company Name: EP Energy

Well Name: **Eugster 2-28C4**

Field, County, State: Altamont - Bluebell, Duchesne, Utah

Surface Location: Lat: 40° 11' 47.238" N Long: 110° 20' 52.835" W

Producing Zone(s): Wasatch

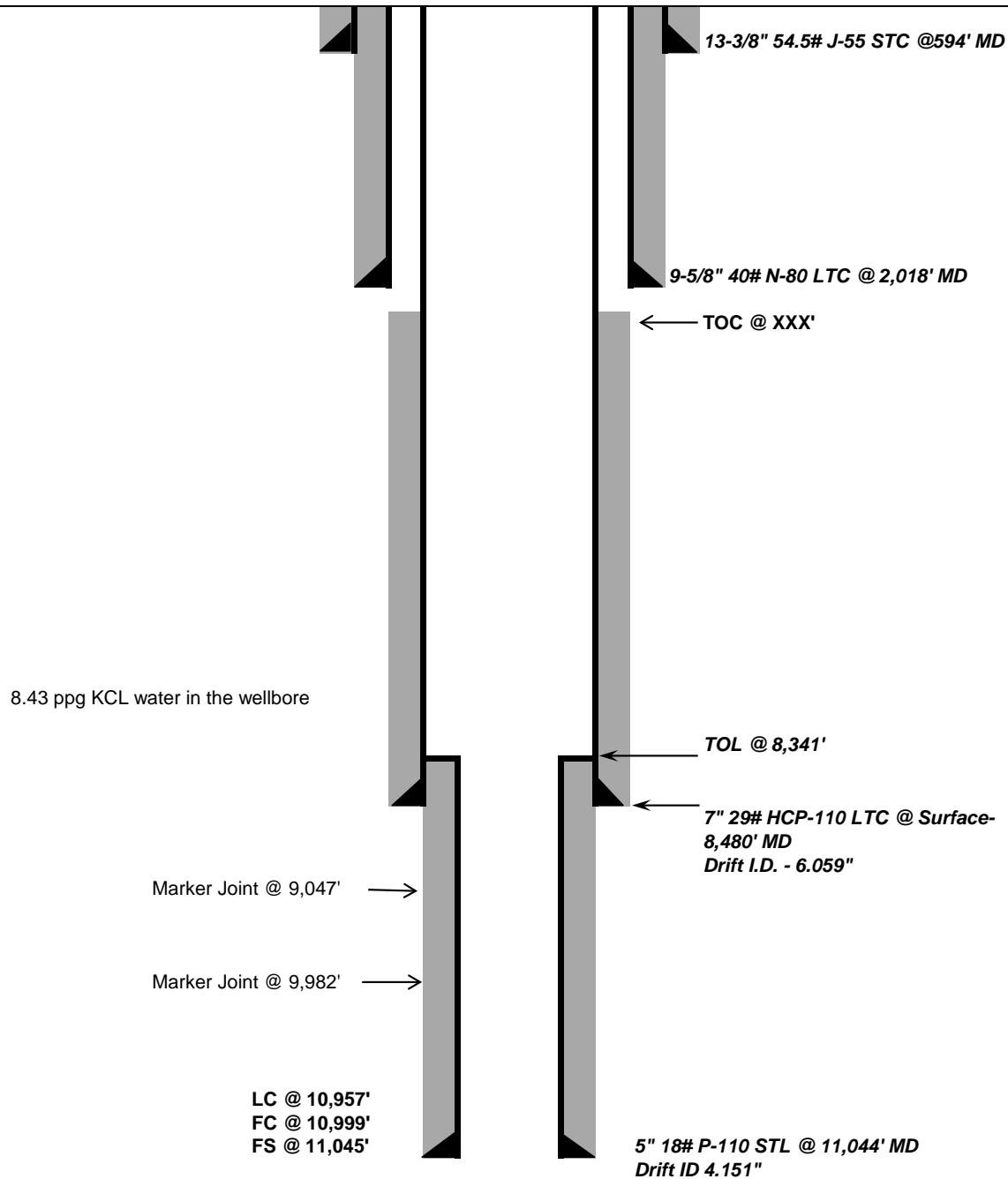
Last Updated: 10/23/2013

By: Robert Fondren

TD: 11045'

BHL: \_\_\_\_\_

Elevation: \_\_\_\_\_



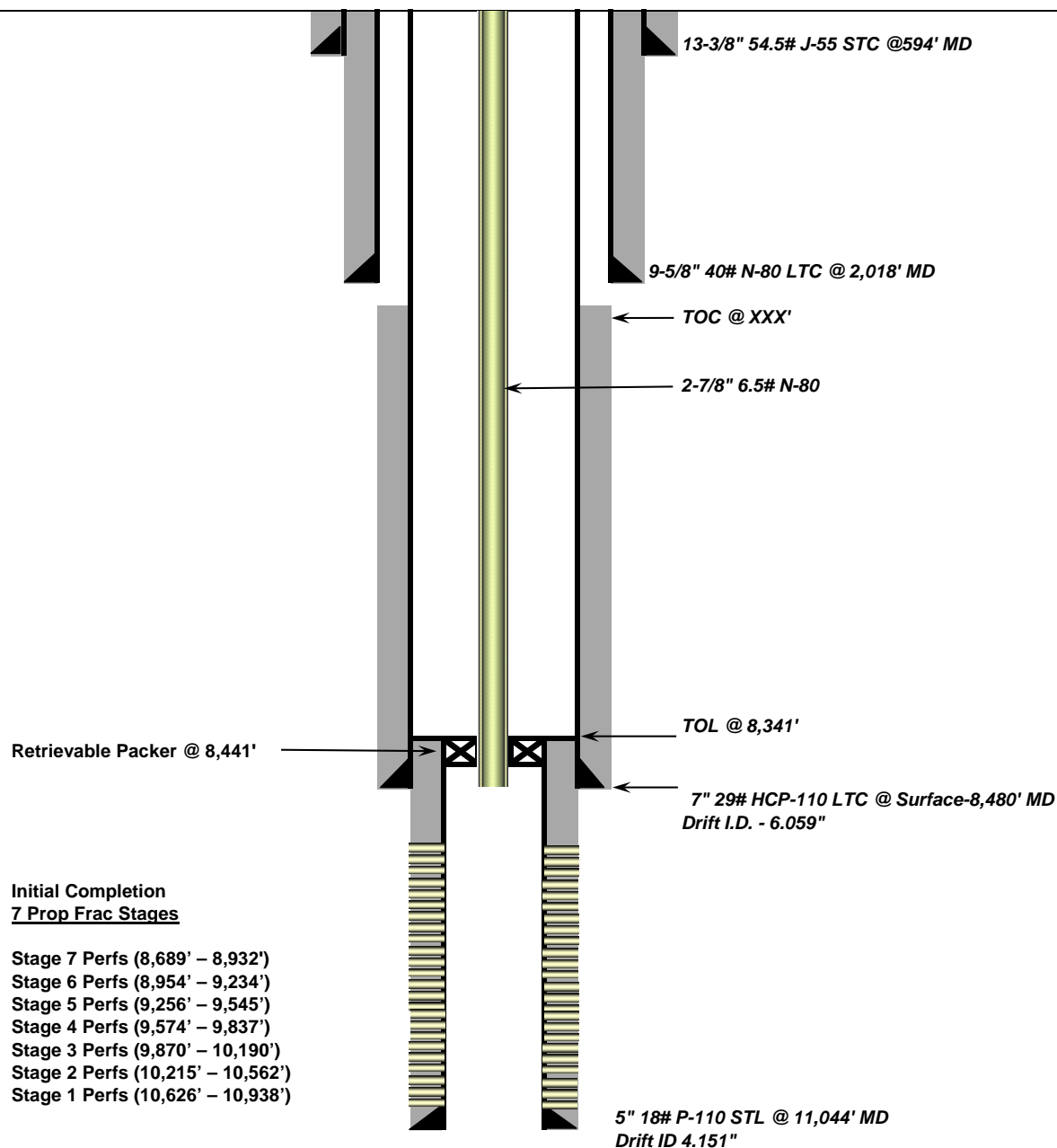




**Initial Completion Wellbore Schematic**

Company Name: EP Energy  
Well Name: Eugster 2-28C4  
Field, County, State: Altamont - Bluebell, Duchesne, Utah  
Surface Location: Lat: 40° 11' 47.238" N Long: 110° 20' 52.835" W  
Producing Zone(s): Wasatch

Last Updated: 10/23/2013  
By: Robert Fondren  
TD: 11045'  
BHL: \_\_\_\_\_  
Elevation: \_\_\_\_\_





CONFIDENTIAL

NW NW 5-28 T03S R04W

## 24 Hr notice of Run'g & Cmt'g 5" Prod Liner on Well: Eugster 2-28C4

RLANDRIG008 <RLANDRIG008@epenergy.com>

Fri, Oct 11, 2013 at 3:12 AM

To: Alexis Huefner <alexishuefner@utah.gov>, Carol Daniels <caroldaniels@utah.gov>, Dennis Ingram <dennisingram@utah.gov>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Gaydos, Tommy L" <Tommy.Gaydos@epenergy.com>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>

Oct. 11, 2013

Well: Eugster 2-28C4

API # 43013519120000

County: Duchesne

Rig: Precision Drilling Rig #404

24 Hrs Notice for running and cementing of 5" Production liner at 11,050' MD.

Best Regards

Steven Murphy

Rig Site Supervisor

EP Energy

C: 435-823-1725

RECEIVED

OCT 11 2013

DIV. OF OIL, GAS & MINING

Steve Murphy

API Well Number: 43013519120000

TVD 11043'  
BHL 1264' FNL, 934' FWLSTATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8  
(highlight changes)

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT or CA AGREEMENT NAME	
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/>		8. WELL NAME and NUMBER: Eugster 2-28C4	
2. NAME OF OPERATOR: EP Energy E&P Company, L.P.		9. API NUMBER: 4301351912	
3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002		10 FIELD AND POOL, OR WILDCAT Altamont	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 900 FNL & 818 FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: 900 FNL & 818 FWL AT TOTAL DEPTH: 900 FNL & 818 FWL		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 28 3S 4W U	
		12. COUNTY Duchesne	13. STATE UTAH

14. DATE SPUNDED: 9/25/2013	15. DATE T.D. REACHED: 10/10/2013	16. DATE COMPLETED: 11/2/2013	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5845
18. TOTAL DEPTH: MD 11,050 TVD 11,093	19. PLUG BACK T.D.: MD TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) Sonic, Gamma Ray, Resistivity & Neutron Density			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

## 24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17.5	13.375 J55	54.5	0	594		G 750	863	0	
12.25	9.625 N80	40	0	2,018		Prem 520	1,082	0	
8.75	7" HCP110	29	0	8,480		G 411	1,163	1500	
6.125	5 HCP110	18	8,341	11,044		Prem 190	279	~8341	

## 25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	8,426	8,420						

## 26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch	8,455	10,938	8,451	10,931	10,622 10,938	.43	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)					10,212 10,559	.43	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)					9,847 10,187	.43	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D)					9,568 9,832	.43	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>

## 27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. See attached for further information on #27 &amp; #28.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
10622-10938	5000 gal 15% HCL acid, 3060# 100 Mesh, 137780# 20/40 Power Prep
10212-10559	5000 gal 15% HCL acid, 2900# 100 Mesh, 153180# 20/40 Power Prep
9847-10187	5000 gal 15% HCL acid, 3000# 100 Mesh, 149580# 20/40 Tempered LC

29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.

30. WELL STATUS:

- |   |  |                                       |   |
|---|--|---------------------------------------|---|
| <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS                         | <input type="checkbox"/> GEOLOGIC REPORT | <input type="checkbox"/> DST REPORT   | <input type="checkbox"/> DIRECTIONAL SURVEY |
| <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION | <input type="checkbox"/> CORE ANALYSIS   | <input type="checkbox"/> OTHER: _____ |   |

Producing

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 11/6/2013		TEST DATE: 11/8/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 723	GAS – MCF: 511	WATER – BBL: 158	PROD. METHOD: Flowing
CHOKE SIZE: 12	TBG. PRESS. 2,463	CSG. PRESS. 48	API GRAVITY 0.68	BTU – GAS 1	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 723	GAS – MCF: 511	WATER – BBL: 158	INTERVAL STATUS: Producing

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Upper Green River	3,723
				Middle Green River	5,325
				Lower Green River	6,602
				Wasatch	8,455

## 35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Maria S. Gomez

TITLE Principal Regulatory Analyst

SIGNATURE

DATE

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

## Attachment to Well Completion Report

Form 8 Dated December 20, 2013

Well Name: Eugster 2-28C4

Items #27 and #28 Continued**27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9249'-9538'	.43	69	Open
8947'-9227'	.43	69	Open
8681'-8924'	.43	69	Open

**28. Acid, Fracture, Treatment, Cement Squeeze, Etc.**

Depth Interval	Amount and Type of Material
9568'-9832'	5000 gal 15% HCL acid, 3000# 100 Mesh, 146720# 20/40 Tempered LC
9249'-9538'	5000 gal 15% HCL acid, 3340# 100 Mesh, 150640# 20/40 Tempered LC
8947'-9227'	5000 gal 15% HCL acid, 3330# 100 Mesh, 149000# 20/40 Tempered LC
8681'-8924'	5000 gal 15% HCL acid, 3330# 100 Mesh, 140180# 20/40 Tempered LC



## CENTRAL DIVISION

ALTAMONT FIELD  
EUGSTER 2-28C4  
EUGSTER 2-28C4  
EUGSTER 2-28C4

## Deviation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	EUGSTER 2-28C4	Wellbore No.	OH
Wellbore Legal Name	EUGSTER 2-28C4	Common Wellbore Name	EUGSTER 2-28C4
Project	ALTAMONT FIELD	Site	EUGSTER 2-28C4
Vertical Section Azimuth		North Reference	True
Origin N/S		Origin E/W	
Spud Date/Time	9/29/2013	UWI	EUGSTER 2-28C4
Active Datum	KB @5,862.1ft (above Mean Sea Level)		

## 2 Survey Name

### 2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	VAUGHN ENERGY SERVICES LLC (GYRO TECHNOLOGIES INC)
Started	9/29/2013	Ended	
Tool Name	GMS	Engineer	JAY HINMAN

#### 2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.0	0.00	0.00	0.0	0.00	0.00

#### 2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
9/29/2013	Tie On	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/29/2013	NORMAL	100.0	0.36	217.76	100.0	-0.25	-0.19	-0.25	0.36	0.36	0.00	217.76
	NORMAL	200.0	0.57	214.56	200.0	-0.90	-0.67	-0.90	0.21	0.21	-3.20	-8.72
	NORMAL	300.0	0.74	190.23	300.0	-1.95	-1.06	-1.95	0.33	0.18	-24.33	-70.23
	NORMAL	400.0	0.98	190.23	400.0	-3.43	-1.33	-3.43	0.23	0.23	0.00	0.00
	NORMAL	500.0	0.89	191.39	500.0	-5.02	-1.63	-5.02	0.09	-0.09	1.16	168.79
	NORMAL	600.0	0.77	182.27	600.0	-6.45	-1.81	-6.45	0.17	-0.11	-9.12	-135.59
	NORMAL	700.0	0.91	186.91	699.9	-7.91	-1.93	-7.91	0.15	0.14	4.65	28.92
	NORMAL	800.0	1.08	199.40	799.9	-9.59	-2.34	-9.59	0.28	0.18	12.48	57.13
	NORMAL	900.0	1.14	194.67	899.9	-11.44	-2.91	-11.44	0.11	0.05	-4.72	-61.39
	NORMAL	1,000.0	0.90	191.84	999.9	-13.17	-3.32	-13.17	0.25	-0.24	-2.84	-169.70
	NORMAL	1,100.0	0.68	187.29	1,099.9	-14.52	-3.56	-14.52	0.23	-0.22	-4.55	-166.27
	NORMAL	1,200.0	0.99	195.47	1,199.9	-15.94	-3.86	-15.94	0.33	0.31	8.18	25.07
	NORMAL	1,300.0	1.30	186.31	1,299.9	-17.90	-4.22	-17.90	0.36	0.31	-9.15	-34.81
	NORMAL	1,400.0	1.27	187.44	1,399.8	-20.13	-4.48	-20.13	0.04	-0.03	1.13	142.99
	NORMAL	1,500.0	1.22	196.91	1,499.8	-22.25	-4.94	-22.25	0.21	-0.05	9.47	109.69
	NORMAL	1,600.0	1.56	195.78	1,599.8	-24.57	-5.61	-24.57	0.34	0.34	-1.13	-5.17
	NORMAL	1,700.0	1.82	187.77	1,699.7	-27.45	-6.20	-27.45	0.36	0.27	-8.01	-45.44
	NORMAL	1,800.0	2.18	197.84	1,799.7	-30.84	-7.00	-30.84	0.50	0.36	10.07	49.53
	NORMAL	1,900.0	2.14	199.65	1,899.6	-34.41	-8.21	-34.41	0.08	-0.04	1.81	120.66

## 2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
9/29/2013	NORMAL	1,981.0	2.57	195.11	1,980.5	-37.59	-9.19	-37.59	0.57	0.52	-5.60	-26.00

## 2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	WEATHERFORD SERVICES
Started	10/1/2013	Ended	
Tool Name	EM	Engineer	El Paso

## 2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
1,981.0	2.57	195.11	1,980.5	-37.59	-9.19

## 2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
10/1/2013	Tie On	1,981.0	2.57	195.11	1,980.5	-37.59	-9.19	-37.59	0.00	0.00	0.00	0.00
10/1/2013	NORMAL	2,138.0	2.26	200.77	2,137.4	-43.88	-11.21	-43.88	0.25	-0.20	3.60	144.98
	NORMAL	2,232.0	2.10	209.21	2,231.3	-47.11	-12.70	-47.11	0.38	-0.17	8.98	120.67
	NORMAL	2,325.0	2.44	199.82	2,324.3	-50.46	-14.21	-50.46	0.54	0.37	-10.10	-52.32
	NORMAL	2,418.0	2.02	198.74	2,417.2	-53.88	-15.40	-53.88	0.45	-0.45	-1.16	-174.83
	NORMAL	2,511.0	1.91	192.09	2,510.1	-56.95	-16.25	-56.95	0.27	-0.12	-7.15	-119.05
	NORMAL	2,604.0	1.72	203.04	2,603.1	-59.75	-17.13	-59.75	0.42	-0.20	11.77	124.11
	NORMAL	2,698.0	2.03	201.09	2,697.0	-62.60	-18.28	-62.60	0.34	0.33	-2.07	-12.61
	NORMAL	2,791.0	1.99	196.01	2,790.0	-65.69	-19.31	-65.69	0.20	-0.04	-5.46	-105.18
10/2/2013	NORMAL	2,884.0	1.61	154.83	2,882.9	-68.42	-19.20	-68.42	1.41	-0.41	-44.28	-126.28
	NORMAL	2,977.0	1.64	148.49	2,975.9	-70.74	-17.95	-70.74	0.20	0.03	-6.82	-83.70
	NORMAL	3,070.0	1.61	154.92	3,068.9	-73.06	-16.70	-73.06	0.20	-0.03	6.91	102.55
	NORMAL	3,163.0	1.66	152.60	3,161.8	-75.43	-15.53	-75.43	0.09	0.05	-2.49	-54.10
	NORMAL	3,257.0	1.81	157.95	3,255.8	-78.02	-14.35	-78.02	0.23	0.16	5.69	49.89
	NORMAL	3,350.0	1.76	171.49	3,348.7	-80.79	-13.58	-80.79	0.46	-0.05	14.56	103.50
	NORMAL	3,443.0	1.83	176.87	3,441.7	-83.69	-13.29	-83.69	0.20	0.08	5.78	70.15
	NORMAL	3,537.0	1.96	189.87	3,535.6	-86.77	-13.48	-86.77	0.48	0.14	13.83	79.74
	NORMAL	3,630.0	2.17	189.52	3,628.6	-90.07	-14.05	-90.07	0.23	0.23	-0.38	-3.61
	NORMAL	3,723.0	2.13	193.86	3,721.5	-93.49	-14.75	-93.49	0.18	-0.04	4.67	105.96
	NORMAL	3,816.0	1.74	173.76	3,814.5	-96.57	-15.01	-96.57	0.84	-0.42	-21.61	-129.67
	NORMAL	3,910.0	2.10	176.85	3,908.4	-99.71	-14.76	-99.71	0.40	0.38	3.29	17.59
	NORMAL	4,003.0	2.61	177.74	4,001.3	-103.53	-14.59	-103.53	0.55	0.55	0.96	4.55
	NORMAL	4,096.0	2.67	156.56	4,094.2	-107.63	-13.64	-107.63	1.04	0.06	-22.77	-97.10
	NORMAL	4,189.0	1.69	125.48	4,187.2	-110.41	-11.66	-110.41	1.61	-1.05	-33.42	-144.49
	NORMAL	4,282.0	1.37	147.03	4,280.1	-112.14	-9.94	-112.14	0.70	-0.34	23.17	129.56
	NORMAL	4,375.0	1.44	158.03	4,373.1	-114.16	-8.90	-114.16	0.30	0.08	11.83	80.99
	NORMAL	4,468.0	1.03	150.35	4,466.1	-115.97	-8.05	-115.97	0.47	-0.44	-8.26	-161.82
	NORMAL	4,561.0	1.31	169.74	4,559.1	-117.74	-7.45	-117.74	0.52	0.30	20.85	64.68
	NORMAL	4,654.0	1.46	185.92	4,652.0	-119.96	-7.38	-119.96	0.45	0.16	17.40	77.23
	NORMAL	4,747.0	1.06	169.00	4,745.0	-121.99	-7.34	-121.99	0.58	-0.43	-18.19	-145.32
	NORMAL	4,840.0	0.83	167.54	4,838.0	-123.49	-7.03	-123.49	0.25	-0.25	-1.57	-174.75
	NORMAL	4,934.0	0.96	151.56	4,932.0	-124.85	-6.51	-124.85	0.30	0.14	-17.00	-70.63
	NORMAL	5,026.0	1.22	165.59	5,024.0	-126.47	-5.90	-126.47	0.40	0.28	15.25	52.91
	NORMAL	5,119.0	1.34	167.87	5,117.0	-128.50	-5.42	-128.50	0.14	0.13	2.45	24.14
	NORMAL	5,212.0	1.47	180.19	5,209.9	-130.75	-5.20	-130.75	0.35	0.14	13.25	72.95
	NORMAL	5,305.0	1.70	187.04	5,302.9	-133.31	-5.37	-133.31	0.32	0.25	7.37	42.94
	NORMAL	5,398.0	2.02	178.42	5,395.8	-136.32	-5.49	-136.32	0.46	0.34	-9.27	-45.53
	NORMAL	5,491.0	2.34	180.58	5,488.8	-139.86	-5.47	-139.86	0.36	0.34	2.32	15.48



## 2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
10/2/2013	NORMAL	6,794.0	1.81	170.77	6,791.1	-179.52	-3.60	-179.52	0.47	0.27	13.20	61.54
10/3/2013	NORMAL	5,584.0	2.30	186.88	5,581.7	-143.61	-5.71	-143.61	0.28	-0.04	6.77	102.05
	NORMAL	5,677.0	1.29	181.42	5,674.7	-146.51	-5.96	-146.51	1.10	-1.09	-5.87	-173.11
	NORMAL	5,770.0	1.26	173.32	5,767.6	-148.57	-5.87	-148.57	0.20	-0.03	-8.71	-103.48
	NORMAL	5,863.0	1.55	187.57	5,860.6	-150.83	-5.91	-150.83	0.49	0.31	15.32	57.58
	NORMAL	5,956.0	1.75	187.71	5,953.6	-153.49	-6.27	-153.49	0.22	0.22	0.15	1.22
	NORMAL	6,049.0	1.99	182.15	6,046.5	-156.51	-6.52	-156.51	0.32	0.26	-5.98	-39.89
	NORMAL	6,143.0	2.33	184.15	6,140.5	-160.04	-6.72	-160.04	0.37	0.36	2.13	13.50
	NORMAL	6,236.0	2.80	186.94	6,233.4	-164.18	-7.13	-164.18	0.52	0.51	3.00	16.27
	NORMAL	6,329.0	1.75	178.99	6,326.3	-167.86	-7.38	-167.86	1.18	-1.13	-8.55	-167.22
	NORMAL	6,422.0	2.29	178.99	6,419.2	-171.14	-7.32	-171.14	0.58	0.58	0.00	0.00
	NORMAL	6,515.0	1.00	128.37	6,512.2	-173.50	-6.65	-173.50	1.96	-1.39	-54.43	-154.97
	NORMAL	6,608.0	1.31	143.80	6,605.2	-174.86	-5.39	-174.86	0.47	0.33	16.59	52.98
	NORMAL	6,701.0	1.56	158.49	6,698.1	-176.90	-4.30	-176.90	0.48	0.27	15.80	63.29
	NORMAL	6,887.0	2.06	173.42	6,884.1	-182.63	-3.17	-182.63	0.29	0.27	2.85	21.02
	NORMAL	6,980.0	2.13	171.89	6,977.0	-186.01	-2.73	-186.01	0.10	0.08	-1.65	-39.39
10/4/2013	NORMAL	7,074.0	2.38	176.11	7,070.9	-189.68	-2.36	-189.68	0.32	0.27	4.49	35.71
	NORMAL	7,167.0	2.83	175.44	7,163.8	-193.90	-2.04	-193.90	0.48	0.48	-0.72	-4.21
	NORMAL	7,260.0	2.96	179.47	7,256.7	-198.59	-1.84	-198.59	0.26	0.14	4.33	59.46
	NORMAL	7,353.0	2.95	174.96	7,349.6	-203.37	-1.61	-203.37	0.25	-0.01	-4.85	-94.71
	NORMAL	7,447.0	1.52	155.73	7,443.5	-206.92	-0.88	-206.92	1.70	-1.52	-20.46	-161.71
	NORMAL	7,540.0	1.06	130.31	7,536.5	-208.60	0.28	-208.60	0.78	-0.49	-27.33	-141.04
	NORMAL	7,633.0	1.47	149.59	7,629.5	-210.18	1.54	-210.18	0.63	0.44	20.73	55.98
	NORMAL	7,726.0	1.83	154.02	7,722.4	-212.55	2.80	-212.55	0.41	0.39	4.76	21.73
	NORMAL	7,819.0	2.19	153.49	7,815.4	-215.47	4.24	-215.47	0.39	0.39	-0.57	-3.22
	NORMAL	7,912.0	1.24	139.20	7,908.3	-217.82	5.69	-217.82	1.11	-1.02	-15.37	-162.79
	NORMAL	8,006.0	1.46	147.59	8,002.3	-219.61	7.00	-219.61	0.31	0.23	8.93	46.18
	NORMAL	8,099.0	1.64	178.16	8,095.3	-221.94	7.68	-221.94	0.90	0.19	32.87	93.28
	NORMAL	8,192.0	1.87	199.85	8,188.2	-224.69	7.20	-224.69	0.75	0.25	23.32	81.95
10/5/2013	NORMAL	8,285.0	1.73	177.04	8,281.2	-227.52	6.76	-227.52	0.78	-0.15	-24.53	-112.31
	NORMAL	8,378.0	1.54	164.23	8,374.1	-230.13	7.17	-230.13	0.44	-0.20	-13.77	-123.77
	NORMAL	8,410.0	1.27	165.36	8,406.1	-230.88	7.38	-230.88	0.85	-0.84	3.53	174.71

## 2.3 Survey Name: Survey #3

Survey Name	Survey #3	Company	VAUGHN ENERGY SERVICES LLC (GYRO TECHNOLOGIES INC)
Started	10/13/2013	Ended	10/14/2013
Tool Name	GMS	Engineer	JAY HINMAN

## 2.3.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
8,410.0	1.27	165.36	8,406.1	-230.88	7.38

## 2.3.2 Survey Stations

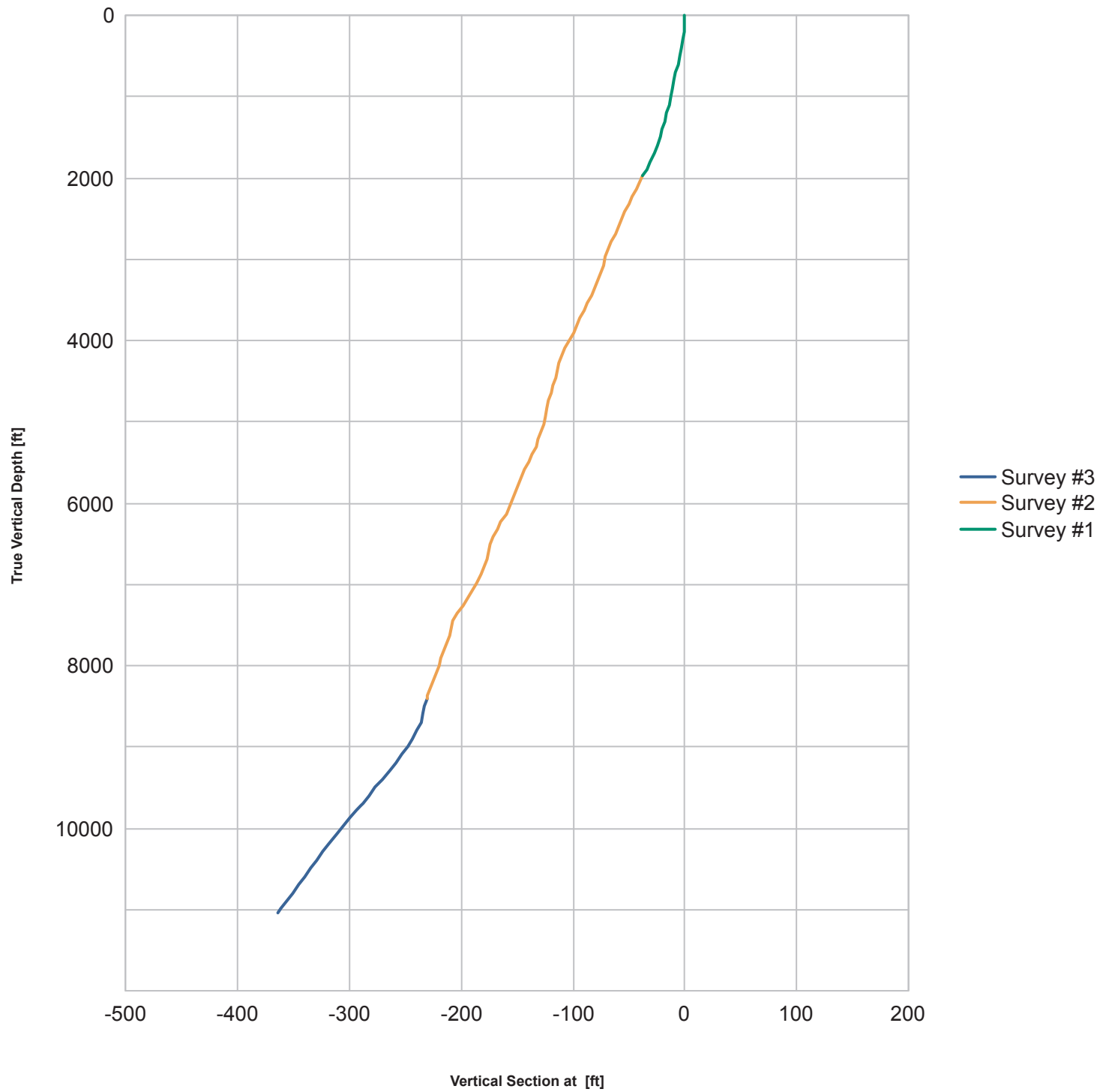
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
10/13/2013	Tie On	8,410.0	1.27	165.36	8,406.1	-230.88	7.38	-230.88	0.00	0.00	0.00	0.00
10/13/2013	NORMAL	8,500.0	1.10	144.00	8,496.1	-232.55	8.14	-232.55	0.52	-0.19	-23.74	-121.26
	NORMAL	8,600.0	0.79	154.14	8,596.1	-233.95	9.01	-233.95	0.35	-0.31	10.14	156.70
	NORMAL	8,700.0	1.61	176.72	8,696.1	-235.97	9.39	-235.97	0.93	0.82	22.58	41.61
	NORMAL	8,800.0	2.24	178.91	8,796.0	-239.33	9.50	-239.33	0.63	0.62	2.19	7.82
	NORMAL	8,900.0	2.39	179.37	8,895.9	-243.36	9.56	-243.36	0.16	0.16	0.45	6.90

## 2.3.2 Survey Stations (Continued)

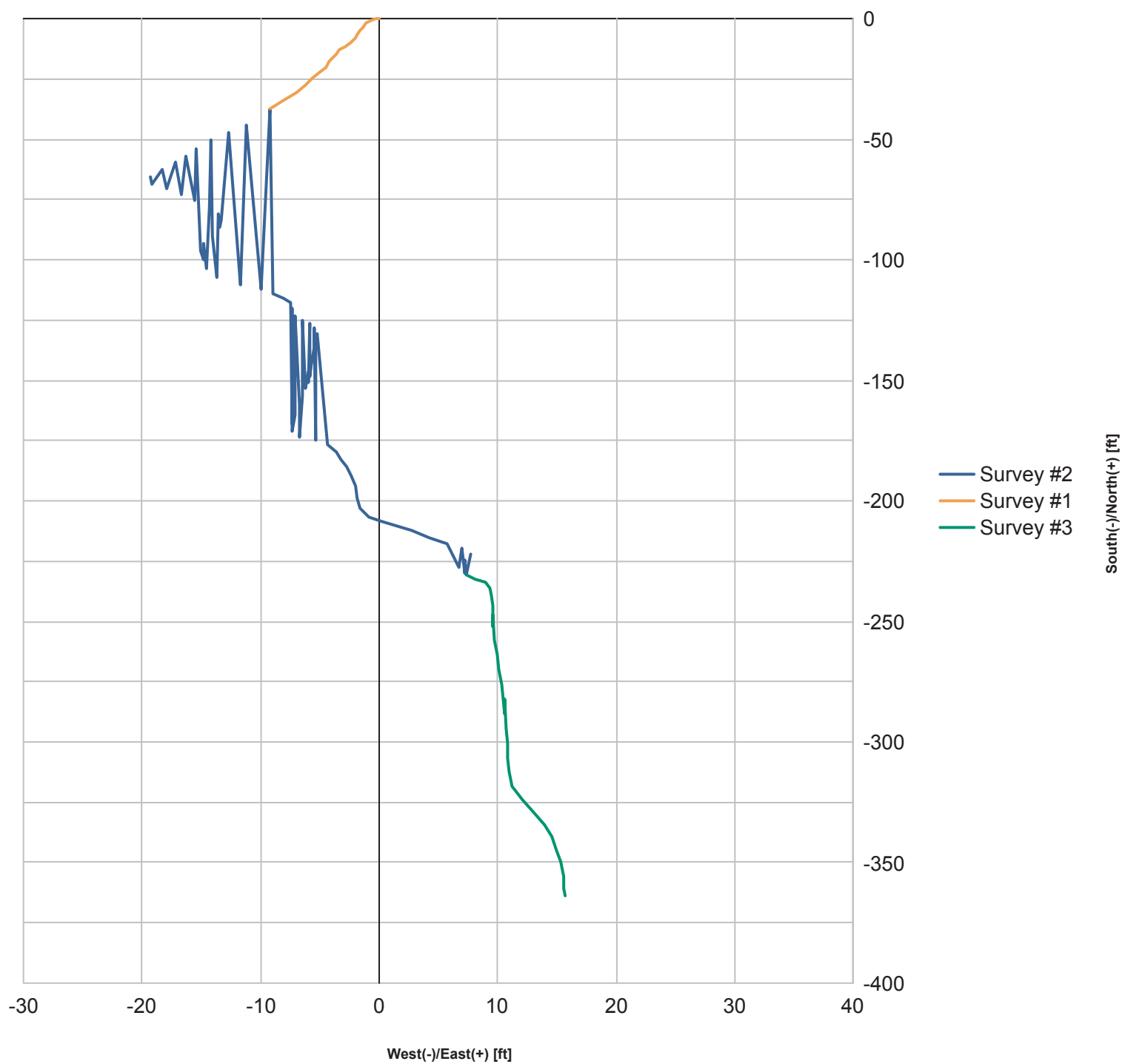
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
10/13/2013	NORMAL	9,000.0	2.38	179.18	8,995.9	-247.53	9.62	-247.53	0.01	-0.01	-0.19	-146.42
	NORMAL	9,100.0	3.12	181.21	9,095.7	-252.33	9.59	-252.33	0.74	0.74	2.03	8.56
	NORMAL	9,200.0	3.32	176.45	9,195.6	-257.93	9.71	-257.93	0.33	0.20	-4.76	-55.32
	NORMAL	9,300.0	3.54	178.27	9,295.4	-263.91	9.98	-263.91	0.24	0.22	1.82	27.70
	NORMAL	9,400.0	3.63	178.56	9,395.2	-270.16	10.16	-270.16	0.10	0.10	0.28	10.62
	NORMAL	9,500.0	3.43	177.47	9,495.0	-276.31	10.37	-276.31	0.21	-0.20	-1.09	-162.36
	NORMAL	9,600.0	3.38	178.94	9,594.8	-282.25	10.56	-282.25	0.10	-0.04	1.47	118.03
	NORMAL	9,700.0	3.38	181.26	9,694.7	-288.14	10.55	-288.14	0.14	0.00	2.32	92.41
	NORMAL	9,800.0	3.66	176.48	9,794.5	-294.28	10.68	-294.28	0.40	0.28	-4.78	-48.83
	NORMAL	9,900.0	3.50	180.54	9,894.3	-300.51	10.84	-300.51	0.30	-0.16	4.06	124.91
	NORMAL	10,000.0	3.36	178.43	9,994.1	-306.49	10.90	-306.49	0.18	-0.13	-2.11	-138.00
	NORMAL	10,100.0	3.46	180.29	10,093.9	-312.43	10.96	-312.43	0.15	0.10	1.86	48.48
	NORMAL	10,200.0	3.28	174.62	10,193.8	-318.30	11.21	-318.30	0.38	-0.18	-5.67	-121.84
	NORMAL	10,300.0	3.19	168.25	10,293.6	-323.87	12.05	-323.87	0.37	-0.08	-6.36	-106.33
	NORMAL	10,400.0	3.01	168.76	10,393.4	-329.17	13.13	-329.17	0.18	-0.18	0.50	171.75
	NORMAL	10,500.0	2.85	172.34	10,493.3	-334.20	13.97	-334.20	0.25	-0.16	3.58	133.81
	NORMAL	10,600.0	3.03	174.60	10,593.2	-339.29	14.55	-339.29	0.22	0.18	2.25	33.26
	NORMAL	10,700.0	2.99	175.33	10,693.0	-344.53	15.01	-344.53	0.05	-0.03	0.73	132.59
	NORMAL	10,800.0	3.19	177.48	10,792.9	-349.91	15.35	-349.91	0.23	0.19	2.15	31.86
	NORMAL	10,900.0	3.27	178.69	10,892.7	-355.54	15.53	-355.54	0.10	0.08	1.21	41.36
	NORMAL	10,989.0	3.19	179.05	10,981.6	-360.54	15.63	-360.54	0.09	-0.09	0.40	166.48
	NORMAL	11,050.0	3.19	179.05	11,042.5	-363.93	15.69	-363.93	0.00	0.00	0.00	0.00

3 Charts

3.1 Vertical Section View



## 3.2 Plan View



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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: Eugster 2-28C4
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		9. API NUMBER: 43013519120000
PHONE NUMBER: 713 997-6717 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0900 FNL 0818 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 28 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>2/20/2017</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please find attached the procedure for a 6 stage recompletion at the Eugster 2-28C4 oil well location.

Approved by the  
 February 02, 2017  
 Oil, Gas and Mining

Date: \_\_\_\_\_

By: Derek Duff

NAME (PLEASE PRINT) Erik Hauser	PHONE NUMBER 713 997-6717	TITLE Sr. HSER Specialist
SIGNATURE N/A	DATE 1/25/2017	

## *Eugster 2-28 C4 Recom Summary Procedure*

### *API # - 43-013-51912*

- POOH with rods & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing.
- Set CBP for 5" 18# casing @ 8,665' and dump bail 15' cmt on top of plug.
- Perforate and stimulate down casing using plug and perf method
  - Bottom Perf: 8,552'
  - Top Perf: 7,060'
  - 6 separate stages
  - 265,000 lbs prop total
  - 66,000 gals acid total
  - 17,000 lbs 100 mesh
- Clean out well drilling up CBPs leaving one 5" CBP 8,665' (PBTD 8,650')
- RIH w/ production tubing, pump, and rods.
- Clean location and resume production.

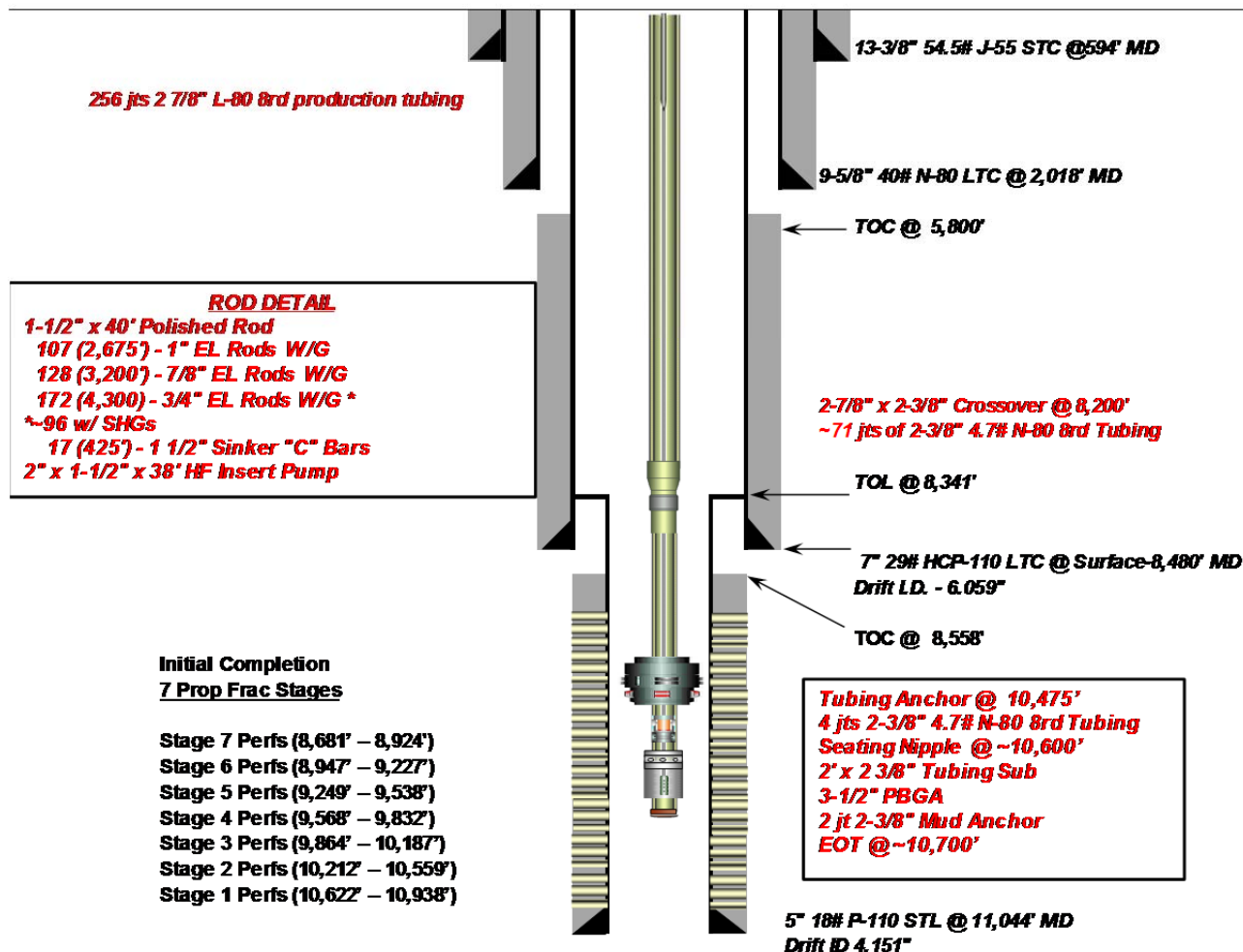




# Current Pumping Wellbore Schematic

Company Name: EP Energy  
 Well Name: Eugster 2-28C4  
 Field, County, State: Altamont - Bluebell, Duchesne, Utah  
 Surface Location: Lat: 40° 11' 47.238" N Long: 110° 20' 52.835" W  
 Producing Zone(s): Wasatch

Last Updated: 7/21/2016  
 By: Tomova  
 TD: 11045'  
 BHL: \_\_\_\_\_  
 Elevation: \_\_\_\_\_





**Proposed Recom Wellbore Schematic**

Company Name: EP Energy  
 Well Name: **Eugster 2-28C4**  
 Field, County, State: Altamont - Bluebell, Duchesne, Utah  
 Surface Location: Lat: 40° 11' 47.238" N Long: 110° 20' 52.835" W  
 Producing Zone(s): Wasatch

Last Updated: 1/24/2016  
 By: Fondren  
 TD: 11045'  
 BHL:  
 Elevation:

**256 jts 2 7/8" L-80 8rd production tubing**

**Proposed 2017 Recom**  
 7,060' - 8,552'  
 265,000 lbs Prop + 66,000 gals HCl Acid  
 + 17,000 lbs 100 mesh  
 6 stages

**Initial Completion**  
**7 Prop Frac Stages**

Stage 7 Perfs (8,681' - 8,924')  
 Stage 6 Perfs (8,947' - 9,227')  
 Stage 5 Perfs (9,249' - 9,538')  
 Stage 4 Perfs (9,568' - 9,832')  
 Stage 3 Perfs (9,864' - 10,187')  
 Stage 2 Perfs (10,212' - 10,559')  
 Stage 1 Perfs (10,622' - 10,938')

**13-3/8" 54.5# J-55 STC @594' MD**

**9-5/8" 40# N-80 LTC @ 2,018' MD**

**TOC @ 5,800'**

**TOL @ 8,341'**

**7" 29# HCP-110 LTC @ Surface-8,480' MD**

**Drift I.D. - 6.059"**

**5" 15M CBP w/15' cmt @ 8,665'**

**TOC @ 8,558'**

**Tubing Anchor @ 10,475'**  
**4 jts 2-3/8" 4.7# N-80 8rd Tubing**  
**Seating Nipple @ ~10,600'**  
**2' x 2 3/8" Tubing Sub**  
**3-1/2" PBGA**  
**2 jt 2-3/8" Mud Anchor**  
**EOT @ ~10,700'**

**5" 18# P-110 STL @ 11,044' MD**  
**Drift ID 4.151"**